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<b>(54) Title:</b> GLOBAL ACCESS SYSTEM OF MULTI-MEDIA RELATED INFORMATION			
<b>(57) Abstract</b> <p>A system for purchasing a personal recording media includes a first entering unit for entering an identification information in order to identify a customer, a unit connected to the first entering unit for identifying whether or not the customer is an authorized customer based on the entered identification information, a second entering unit connected to the identifying unit for entering at least one designated information by the customer when the customer is identified as an authorized customer in accordance with the identifying unit, a unit for storing a plurality of information, a unit connected to the second entering unit and the information storing unit for reading information associated with the designated information by retrieving the plurality of information in the information storing unit based on the designated information entered by the second entering unit, and a unit connected to the information reading unit for recording the information read from the information storing unit into a predetermined recording media.</p>			

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## DESCRIPTION

## GLOBAL ACCESS SYSTEM OF MULTI-MEDIA RELATED INFORMATION

## BACKGROUND OF THE INVENTION

## 1. Field of the Invention

The present invention relates to a system for purchasing a personal recording media, and more particularly to a system capable of searching one or more musical compositions, editing the searched musical compositions, and purchasing a recording media such as CD, MD, cassette tape and the like into which the edited musical compositions are inserted.

## 2. Description of the Related Art

In general, a customer can produce an original compilation recording media which is unique to the customer by renting or purchasing a MD, CD, cassette tape and the like, selecting the customer's favorite musical compositions by utilizing a reproducing/recording apparatus such as a CD player/recorder, a cassette deck and the like, and editing and recording the selected musical compositions into recording media such as a MD, CD, or cassette tape in the customer's preferred order.

For example, even for musical compositions by a single musician or artist, it is rare that all personally favorite musical compositions are recorded in just one album such as an MD, CD, or cassette tape. Accordingly, when the customer desires to produce a personally original compilation recording media such as an album composed of only the customer's personally favorite musical compositions,

the customer has to purchase or rent a plurality of MDs, CDs, cassette tapes and the like, and then select, edit, and then record personally favorite musical compositions using reproducing/editing/recording storage apparatus in such a manner that a few musical compositions are selected from one album, more musical compositions are selected from another album and further musical compositions are selected from another album.

Similarly, when the customer desires to produce an album composed of musical compositions by a plurality of musicians or artists, a plurality of albums by each of the musicians or artists have to be purchased or rent, and then the desired personally original compilation recording media must be produced by using the reproducing/editing/recording storage apparatus.

In the above mentioned conventional methods, there is a problem, such that when a customer desires to produce an original compilation recording media, the customer has to purchase or rent a plurality of MDs, CDs, cassette tapes and the like, and then select, edit, and then record personally favorite musical compositions from them using reproducing/editing/recording storage apparatus, and as a result, it would be more costly than purchasing one MD, CD, cassette tape and the like having those personally favorite musical compositions, and also it would take time for reproducing/editing/ recording.

Further, there is another problem, such that because a customer freely produces a personally original compilation recording media by copying the musical compositions from a plurality of MDs, CDs, cassette tapes and the like, without concern for the existence of the copyrights of the musical compositions, the copyright owners can not collect royalties for the copyrights regarding their own musical compositions, and as a result, no return has been provided for the music

industries as well as for the musical composers.

#### SUMMARY OF THE INVENTION

It is an object of the present invention to provide a system for purchasing a personal recording media, which system is capable of arbitrarily selecting or designating the customer's favorite musicians or artists, arbitrarily selecting or designating musical compositions by the selected musicians or artists, and purchasing a personally original compilation recording media composed of the selected or designated musical compositions.

It is another object of the present invention to provide a method of purchasing a personal recording media for arbitrarily selecting or designating the customer's favorite musicians or artists, arbitrarily selecting or designating musical compositions by the selected musicians or artists, and purchasing a personally original compilation recording media composed of the selected or designated musical compositions.

It is still another object of the present invention to provide a recording media of recording a personal recording media purchasing program for arbitrarily selecting or designating the customer's favorite musicians or artists, arbitrarily selecting or designating musical compositions by the selected musicians or artists, and purchasing a personally original compilation recording media composed of the selected or designated musical compositions.

It is further object of the present invention to provide a system for purchasing a personal recording media, which system is capable of automatically collecting royalties for copyrights and the like regarding the musical compositions incorporated into the recording media at a time when a customer

purchases a personally original compilation recording media, and also capable of implementing the return and the like concerning the use of the musical compositions for the copyrighters and the like.

It is another object of the present invention to provide a method of purchasing a personal recording media for automatically collecting royalties for copyrights and the like regarding the musical compositions incorporated into the recording media at a time when a customer purchases a personally original compilation recording media, and for implementing the return and the like concerning the use of the musical compositions for the copyrighters and the like.

It is still another object of the present invention to provide a recording media of recording a personal recording media purchasing program for automatically collecting royalties for copyrights and the like regarding the musical compositions incorporated into the recording media at a time when a customer purchases a personally original compilation recording media, and for implementing the return and the like concerning the use of the musical compositions for the copyrighters and the like.

The objects of the present invention can be achieved by a system for purchasing a personal recording media, comprising:

- a first entering unit for entering an identification information in order to identify a customer;

- a unit connected to the first entering unit for identifying whether or not the customer is an authorized customer based on the entered identification information;

- a second entering unit connected to the identifying unit for entering at least one designated information by the customer when the customer is identified



as an authorized customer in accordance with the identifying unit;

a unit for storing a plurality of information;

a unit connected to the second entering unit and the information storing unit for reading information associated with the designated information by retrieving the plurality of information in the information storing unit based on the designated information entered by the second entering unit; and

a unit connected to the information reading unit for recording the information read from the information storing unit into a predetermined recording media.

Preferably, a system for purchasing a personal recording media according to the present invention further includes unit for implementing a predetermined accounting process regarding the recording media into which the information has been recorded.

Another object of the present invention can be achieved by a system for purchasing a personal recording media, comprising:

a first station, including

a first entering unit for entering an identification information in order to identify a customer;

a second entering unit for entering at least one designated information by the customer when the customer is identified as an authorized customer;

a second station, including

a unit connected to the first station for identifying whether or not the customer is an authorized customer based on the identification information entered by the first entering unit;

a unit for storing a plurality of information;  
a unit for reading information associated with the designated information by retrieving the plurality of information in the information storing unit based on the designated information entered by the second entering unit;  
a unit connected to the information reading unit for recording the information read from the information storing unit into a predetermined recording media; and  
a unit for implementing a predetermined accounting process regarding the recording media into which the information has been recorded,  
wherein, the customer can purchase the recording media at the first station in such a manner that the recording media consisting of the information corresponding to an arbitrary number of the designated information entered from the second entering unit by the customer at the first station is produced at the second station, and then the produced recording media is delivered to the first station.

Preferably, the first station further includes

a unit for storing a specific information consisting of a part of the plurality of information stored in the information storing unit at the second station; and

a unit for retrieving the specific information storing unit based on the designated information entered from the second entering unit by the customer and for displaying, to the customer, the specific information associated with the designated information entered.

Yet another object of the present invention can be achieved by a system for purchasing a personal recording media, comprising:

a first station, including

a first entering unit for entering an identification information in order to identify a customer;

a second entering unit for entering at least one designated information by the customer when the customer is identified as an authorized customer;

a first information storing unit for storing a plurality of information;

a information recording unit for recording information associated with the designated information by retrieving the plurality of information of the first information storing unit based on the designated information entered from the second entering unit;

a second station, including

a unit connected to the first station for identifying whether or not the customer is an authorized customer based on the identification information entered by the first entering unit;

a second information storing unit for storing a plurality of information corresponding to the plurality of information stored in the first storing unit;

a unit for implementing a predetermined accounting process regarding the recording media into which the information has been recorded;

a third station, connected to the first station and the second station, respectively, including

a latest information storing unit for storing the latest information, wherein, the first station and the second station update the plurality of information stored in the first information storing unit and the second information storing unit, respectively, based on the latest information stored in the latest information storing unit,

wherein the customer can purchase the recording media at the first station in such a manner that the recording media consisting of an arbitrary number of the information is produced at the first station based on the designated information entered by the customer at the first station.

Preferably, the plurality of information stored in the first information storing unit and the plurality of information stored in the second information storing unit are musical composition information which include information concerning a musical composition list, a musical composition data, an index and a copyright.

Still another object of the present invention can be achieved by a system for purchasing a personal recording media, comprising:

a first station, including

- a first entering unit for entering an identification information in order to identify a customer;

- a second entering unit for entering at least one designated information by the customer when the customer is identified as an authorized customer;

a second station, including

- a unit connected to the first station for identifying whether or not the customer is an authorized customer based on the identification information entered by the first entering unit;

- an information storing unit for storing a plurality of information;

- a unit for reading the information associated with the designated information by retrieving the plurality of information in the information storing unit based on the designated information entered from the second entering unit;

information recording unit connected to the information reading unit for recording the information read from the information storing unit into a predetermined recording media;

a unit for implementing a predetermined accounting process regarding the recording media into which the information has been recorded;

a third station, connected to the first station and the second station, respectively, including

a latest information storing unit for storing the latest information, wherein, the first station and the second station update the plurality of information stored in the information storing unit in the second station based on the latest information stored in the latest information storing unit, as necessary,

wherein the customer can purchase the recording media at the first station in such a manner that the recording media consisting of an arbitrary number of the information is produced at the second station, based on the designated information entered by the customer at the first station, and then the produced recording media is delivered to the first station.

It is preferable that the first station further include

a unit for storing specific information consisting of a part of the plurality of information stored in the information storing unit at the second station; and

a unit for retrieving the specific information storing unit based on the designated information entered from the second entering unit by the customer and for displaying, to the customer, the specific information associated with the designated information entered.

The information storing unit is preferably a musical composition information storing unit, and the plurality of information stored therein are a plurality of musical composition information which includes information concerning a musical composition list, a musical composition data, an index and a copyright.

The musical composition information storing unit is preferably a database having an accumulable specification which unifies the music, and is constituted by digitizing and unifying a sound source, MIDI data, music score data, and right attribution data.

Further preferably, the musical composition information storing unit includes five categories of a music attribution, an original disc right, a copyright, a music score, and a sound source.

More preferably, the information storing unit is a video information storing unit, and the plurality of information are a plurality of video information which includes information regarding video data, sound data, an index, and a copyright.

It is preferable that the information storing unit is a program storing unit, and the plurality of information are a plurality of program information which includes information regarding a plurality of programs, an index, and a copyright.

Another object of the present invention can be achieved by a method of purchasing a personal recording media, with which a customer can purchase the recording media composed of an arbitrary number of desired information, comprising the steps of:

entering an identification information in order to identify a customer;  
identifying whether or not the customer is an authorized customer based

on the entered identification information;

entering at least one designated information by the customer when the customer is identified as an authorized customer in accordance with a result of the identifying;

reading information associated with the designated information by retrieving a database which includes a plurality of information based on the designated information entered;

storing the read information into a predetermined recording media; and  
implementing a predetermined accounting process regarding the recording media into which the information are recorded.

Preferably, the plurality of information are the musical composition information which include information concerning a musical composition list, musical composition data, an index and a copyright.

Further preferably, the plurality of information are a plurality of video information which includes information regarding video data, sound data, an index, and a copyright.

More preferably, the plurality of information are a plurality of program information which includes information regarding a plurality of software programs, an index, and a copyright.

Further object of the present invention can be achieved by a recording media having a program for purchasing a personal recording media, with which a customer can purchase the recording media composed of an arbitrary number of desired information, the program comprising the steps of:

entering an identification information in order to identify a customer;  
identifying whether or not the customer is an authorized customer based

on the entered identification information;

entering at least one designated information by the customer when the customer is identified as an authorized customer in accordance with a result of the identifying;

reading information associated with the designated information by retrieving a database which includes a plurality of information based on the designated information entered;

storing the read information into a predetermined recording media; and implementing a predetermined accounting process regarding the recording media into which the information are recorded.

Preferably, the plurality of information are the musical composition information which include information concerning a musical composition list, musical composition data, an index and a copyright.

Further preferably, the plurality of information are a plurality of video information which includes information regarding video data, sound data, an index, and a copyright.

More preferably, the plurality of information are a plurality of program information which include information regarding a plurality of software programs, an index, and a copyright.

The video data is preferably motion picture data.

The video data is television program data, preferably.

Preferably, the video data is a commercial program data.

The plurality of information are preferably a plurality of image information which include information regarding a graphic data, a sound data, an index, and a copyright.



More preferably, the video information storing unit is a Digital Versatile Disc (DVD).

Preferably the video information storing unit is a video cassette tape (VCT).

The system for purchasing a personal recording media according to the present invention is capable of arbitrarily selecting or designating the customer's favorite musicians or artists, arbitrarily selecting or designating the musical compositions by the selected musicians or artists, and purchasing a personally original compilation recording media composed of the selected or designated musical compositions.

Furthermore, the system for purchasing a personal recording media according to the present invention is capable of automatically collecting the royalty for the copyrights and the like regarding the musical compositions incorporated into the recording media at a time when a customer purchases a personally original compilation recording media, and is also capable of implementing the return and the like concerning the use of the musical compositions for the copyright holders and the like.

The above mentioned features of the system according to the present invention could be also equally applicable to the method and the media according to the present invention as well.

#### BRIEF DESCRIPTION OF THE DRAWINGS

The above and other objects of the invention will be apparent upon consideration of the following detailed description, taken in conjunction with the accompanying drawings, in which the reference characters refer to like parts

throughout and in which:

Fig. 1 is a schematic diagram showing a first embodiment of the system for purchasing a personal recording media according to the present invention;

Fig. 2 is an illustrative diagram of one portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 1;

Fig. 3 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 1;

Fig. 4 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 1;

Fig. 5 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 1;

Fig. 6 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 1;

Fig. 7 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 1;

Fig. 8 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 1;

Fig. 9 is an illustrative diagram of another portion of the operation of

the system for purchasing a personal recording media according to the present invention shown in Fig. 1;

Fig. 10 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 1;

Fig. 11 is a diagram showing one example of the specification of the music database which is one of the main components of the system for purchasing a personal recording media according to the present invention;

Fig. 12 is a diagram showing one example of the index database which composes one portion of the music database of the system for purchasing a personal recording media shown in Fig. 11;

Fig. 13 is a diagram showing another example of the index database which composes one portion of the music database of the system for purchasing a personal recording media shown in Fig. 11;

Fig. 14 is a schematic diagram showing a second embodiment of the system for purchasing a personal recording media according to the present invention;

Fig. 15 is an illustrative diagram of one portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 14;

Fig. 16 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 14;

Fig. 17 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 14;

Fig. 18 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 14;

Fig. 19 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 14;

Fig. 20 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 14;

Fig. 21 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 14;

Fig. 22 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 14;

Fig. 23 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 14;

Fig. 24 is a schematic diagram showing a third embodiment of the system for purchasing a personal recording media according to the present invention;

Fig. 25 is an illustrative diagram of one portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 24;

Fig. 26 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present

invention shown in Fig. 24;

Fig. 27 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 24;

Fig. 28 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 24;

Fig. 29 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 24;

Fig. 30 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 24;

Fig. 31 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 24;

Fig. 32 is a schematic diagram showing a fourth embodiment of the system for purchasing a personal recording media according to the present invention;

Fig. 33 is an illustrative diagram of one portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 32;

Fig. 34 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 32;

Fig. 35 is an illustrative diagram of another portion of the operation

of the system for purchasing a personal recording media according to the present invention shown in Fig. 32;

Fig. 36 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 32;

Fig. 37 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 32;

Fig. 38 is an illustrative diagram of another portion of the operation of the system for purchasing a personal recording media according to the present invention shown in Fig. 32;

Fig. 39 is a schematic diagram showing the fifth embodiment of the system for purchasing a personal recording media according to the present invention;

Figs. 40 to 51 are illustrative diagrams showing an operation of the fifth embodiment shown in Fig. 39;

Fig. 52 is an illustrative diagram showing a summary of the processes of the fifth embodiment shown in Fig. 39;

Fig. 53 is a diagram showing one example of the configurations of the main parts of the server-client system shown in Fig. 39;

Fig. 54 is a schematic diagram showing a sixth embodiment of the purchasing system according to the present invention;

Fig. 55 is a diagram showing another embodiment of the music database according to the present invention;

Fig. 56 is a diagram showing a display menu on the display monitor of the system shown in Fig. 54;

Fig. 57 consisting of Figs. 57a, 57b and 57c, and each of figures is a diagram showing a different kind of initial menu, which is displayed on the display screen;

Fig. 58 is a diagram showing one example of the content of the Permission File to be used for the system of the present system;

Fig. 59 is a diagram showing one example of the content of the Charging Rate & Fee File to be used for the system of the present system;

Fig. 60 is a schematic diagram illustrating the overall processes using the "Permission File" shown in Fig. 59 and the "Charging Rate & Fee File" shown in Fig. 60 according to the present invention; and

Fig. 61 consisting of Figs. 61a, 61b, and 61c and each of figures is a diagram illustrating the processes shown in Fig. 60.

#### DESCRIPTION OF THE PREFERRED EMBODIMENTS

In the following, referring to the accompanying drawings, the preferred embodiments of the system for purchasing a personal recording media according to the present invention will be described in detail.

Fig. 1 is a schematic diagram showing a first embodiment of the system for purchasing a personal recording media (hereinafter referred to as "a purchasing system") according to the present invention.

As shown in Fig. 1, the main parts of the purchasing system in this embodiment are composed of a store 10, that is a KIOSK such as a convenience store or a gasoline station and the like which will be easily accessed by a customer, and a backchannel company 20. Store 10 is connected with backchannel company 20 using an internet or a private line (leased line) 40.

The store 10 includes a MD production application accepting system 11 (hereinafter referred to as the "AAS") which is composed of a monitor, a card reader, and a database retrieval/application terminal (not shown), a musical composition database 12 connected to the AAS 11, a store equipment managing system 13 connected to both the AAS 11 and the musical composition database 12, and a communication system 14 connected to the store equipment managing system 13.

The backchannel company 20 includes a communication system 21 connected to the communication system 14 of the store 10 via a telephone or an internet line 40 and the like; a server-client system (hereinafter referred to as the "host-computer") 22 connected to the communication system 21; a music database 27 connected to the host-computer 22 and including a musical composition list database 23, a musical composition data database 24, an index database 25 as well as a copyright database 26; a MD writer 28 connected to the music database 27; a printer 29 connected to the music database 27; and a company side database 32 connected to the host-computer 22 and including a customer database 30 as well as an accounting approval database 31.

In the following, by referring to Figs. 2 to 9, an operation of the purchasing system shown in Fig. 1 will be described.

#### 1-1. Membership Recognition Step

At first, a switch of the purchasing system is turned on by touching a "START" entry display on a screen of a touch sensor type monitor (hereinafter referred to as the "monitor") in the AAS 11. A word "WELCOME" is displayed on the monitor screen, and then words "PLEASE INSERT A CARD" are displayed on the screen.

When the customer is a registered member of the purchasing system, he/she should insert his/her member card into the card reader of the AAS 11. Further, when the



customer is a non-registered member, he/she should apply for a membership registration at the store and purchase a new member card, and then insert the purchased member card into the card reader. Herein, the purchasing system can be constituted as having a new membership card manufacturing function such that a new member card can be automatically manufactured based on anything which can verify the customer's identification, such as the customer's driver's license or bank card.

After the card reader has read the member card, the words "PLEASE ENTER YOUR PERSONAL IDENTIFICATION NUMBER" are displayed on the monitor. According to the display thereof, the customer will enter a personal identification number (hereinafter referred to as the "PIN") unique for each member. The entry of the PIN can be implemented by touching the alphanumeric characters displayed on the monitor screen. The information of the entered PIN and the information of the member registration number of the member card, which has been read in advance by the card reader, are transmitted from the communication system 14 via the telephone line 40 to the host-computer 22 through the communication system 21 of the backchannel company 20.

In the backchannel company 20, the host-computer 22 searches the customer managing database 30 of the company side database 32 based on the information of the PIN and the member registration number transmitted from the store 10, and matches whether or not the customer is a valid member, and then transmits the information concerning the result of that match from the communication system 21 via the telephone line 40 to the AAS 11 through the communication system 14 of the store 10. Further, the host-computer 22 will produce a customer code E when the customer is a valid member.

The AAS 11 in the store 10 displays the words "OK" on the monitor screen's display when the customer is a valid member, based on the received information concerning the result of the match. On the other hand, when the customer is an invalid member, then the AAS 11 displays the words "INVALID" on the monitor screen's display. In case the wrong PIN was entered during the above mentioned operation, it could be constituted such that the PIN can be re-entered by displaying the words "INVALID" on the screen, and then displaying the words "PLEASE ENTER YOUR PERSONAL IDENTIFICATION NUMBER AGAIN WITH GREAT CARE" on the screen.

In this case, in view of security, it could be set such that a limit would be imposed on the number of times that a PIN can be re-entered. And if the match cannot be made within the defined number of times for the re-entry, the purchasing system is automatically turned off.

When the word "OK" is displayed on the monitor screen in the above mentioned step, the monitor displays the words "LET'S SELECT THE MUSICAL COMPOSITIONS" on the screen, and then the operation will proceed to the musical composition selection step.

#### 1-2. Musical Composition Selection Step

As shown in Fig. 3A, the musical composition selection items for "the first music piece" are displayed on the monitor screen. In these musical composition selection items, the items of (a) the title of a musical composition, (b) the name of an artist, (c) the title of an album, (d) the names of the songwriter/composer, (e) the category, (f) the manufactured date, (g) a portion of the words, (h) a portion of the melody (tune), and (i) the recommended lineup are displayed, respectively.

The customer enters the necessary information by looking at the musical composition selection items displayed on the monitor screen, in order to select the first music piece. There are various methods of entering this information. For example, the necessary information can be entered by using the keyboard or can be directly written on the screen by using a touch pen.

The AAS 11 will obtain the necessary information by searching the musical composition list database 12 in the store 10 based on the information entered on the monitor screen.

As an example, Fig. 3B shows the monitor screen when the customer has entered (b) the name of an artist, (g) a portion of the words, and (h) a portion of the melody, respectively.

Herein, it could be constituted such that a voice recognition method can be adopted for the entry of (h) a portion of the melody, and making a recognition of the melody that the customer is singing using that recognition method, and it could be constituted such that the recognized melody is further converted to the score corresponding thereto, and then the converted score is displayed on the screen of the monitor.

After these entries have been completed, the search is implemented by pushing the "search button" which is displayed on the monitor screen, and then the search result as shown in Fig. 3C is displayed on the monitor screen. That is, as a result of the search, the title of the first music piece, "I LOVE YOU" in this example, as well as its music code "044ESPD382401" are displayed on the monitor screen, and the selection items "SELECTION BUTTON", "CANCEL BUTTON", "END BUTTON" are also displayed on the monitor screen at the same time.

The customer verifies the first music piece displayed on the monitor screen.

and then touches the "SELECTION BUTTON" if the entered information is confirmed. When the "SELECTION BUTTON" is touched, the music code is accumulated into a hard disc of the AAS 11, as well as the musical composition selection items for the second music piece are displayed on the monitor screen. The musical composition selection for the second music piece is implemented according to the same procedure. The music codes for the desired musical compositions are accumulated sequentially by repeating the procedure until the desired number of music pieces is reached.

When all the music piece selections have been completed, the musical composition selection is completed by touching the "END BUTTON" selection item after the validation result of the last music piece has been displayed on the monitor screen.

#### 1-3. Musical Composition Editing Step

By touching "END BUTTON" in the above mentioned step, as shown in Fig. 4, after having displayed the words "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:", the musical compositions selected in the above mentioned musical composition selection step are displayed on the screen.

In this example, the selected musical compositions are displayed on the monitor screen as:

- |    |                |                    |
|----|----------------|--------------------|
| 1. | I LOVE YOU     | BEATLES            |
| 2. | SATISFACTION   | THE ROLLING STONES |
| 3. | SOME MIGHT SAY | OASIS              |
| 4. | LET IT BE      | BEATLES            |
| 5. | LIKE A VIRGIN  | MADONNA            |

and the selection items "SORT", "DELETE", "ADD" and "OK" are displayed on the monitor screen at the same time.

### 1-3.1. Sorting of Musical Compositions

In the following, the sorting procedures of the orders for the selected musical compositions will be described.

By touching the item "SORT" on the monitor screen, as shown below, on the monitor screen, brackets are displayed on the right side of each of the musical compositions, respectively:

1.	I LOVE YOU	BEATLES	[ ]
2.	SATISFACTION	THE ROLLING STONES	[ ]
3.	SOME MIGHT SAY	OASIS	[ ]
4.	LET IT BE	BEATLES	[ ]
5.	LIKE A VIRGIN	MADONNA	[ ]

In this example, because the first and the third musical compositions are to be sorted, the order of the musical compositions are changed to the order of 3. 2. 1. 4. 5. by entering the numbers 3, 2, 1, 4, 5 into the blank squares from the top to the bottom in order. Of course, it could be constituted such that the order of the musical compositions can be sorted by using other commonly known methods such as one utilizing a cursor.

On the monitor screen, the item "OK" is displayed at the same time, and, by touching "OK" when the desired sorting has been completed, the monitor screen returns to the display of "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:", and the sort changed musical compositions, such as shown in below, are displayed:

3.	SOME MIGHT SAY	OASIS
2.	SATISFACTION	THE ROLLING STONES
1.	I LOVE YOU	BEATLES
4.	LET IT BE	BEATLES

5.        LIKE A VIRGIN        MADONNA

Then, by touching the item "OK" on the screen, the display of "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:" is so displayed as to be renumbered such as;

1.        SOME MIGHT SAY        OASIS
2.        SATISFACTION        THE ROLLING STONES
3.        I LOVE YOU        BEATLES
4.        LET IT BE        BEATLES
5.        LIKE A VIRGIN        MADONNA

#### 1-3.2. Deletion of Musical Compositions

Deletion of selected musical compositions can be implemented by touching the item "DELETE" on the monitor screen. By touching the item "DELETE", the character display "PLEASE TOUCH THE MUSICAL COMPOSITION(S) TO BE DELETED" is made, and further the list of the selected musical compositions:

1.        SOME MIGHT SAY        OASIS
2.        SATISFACTION        THE ROLLING STONES
3.        I LOVE YOU        BEATLES
4.        LET IT BE        BEATLES
5.        LIKE A VIRGIN        MADONNA

is displayed on the monitor screen, as well as the selection item "OK" is also displayed at the same time.

Herein, when deleting "2. SATISFACTION THE ROLLING STONES" in the musical composition list, the part of the musical composition "2. SATISFACTION THE ROLLING STONES" is removed from the list by touching the corresponding musical composition display portion on the monitor screen, and only that portion is displayed on the new page in the screen of the monitor with the selection item

"OK" as:

WILL BE DELETED

2. SATISFACTION THE ROLLING STONES

Herein, by touching the item "OK", the monitor screen displays again as shown below by renumbering the musical compositions except the deleted musical composition:

- |    |                |         |
|----|----------------|---------|
| 1. | SOME MIGHT SAY | OASIS   |
| 2. | I LOVE YOU     | BEATLES |
| 3. | LET IT BE      | BEATLES |
| 4. | LIKE A VIRGIN  | MADONNA |

#### 1-3.3. Addition of Musical Compositions

When newly adding a musical composition, the monitor screen displays the words "THE MUSICAL COMPOSITION WILL BE ADDED" by touching the selection item "ADD", and returns to the screen of "The Musical Composition Selection Step" as described above. Then, as described above, a new musical composition can be added by operating a necessary procedure while watching the monitor screen.

"THE GROUP A OF THE MUSIC CODES" corresponding to the edited musical compositions are created by touching the item "END BUTTON" on the screen after having implemented the necessary operations in the above mentioned musical composition editing step. Also, as described below, the monitor screen will shift to the next step by touching the item "END BUTTON".

#### 1-4. Design Step

In this step, the jacket design selection and the album title entry of the MD are implemented.

##### 1-4.1. Jacket Design Selection

With a completion of the musical composition editing step as described

in the above step 3, in this example, nine kinds of jacket design are displayed on one screen (i.e., one page) of the monitor, as shown in Fig. 5, along with the character display of "PLEASE SELECT THE FAVORITE JACKET". Jacket designs on other monitor screen pages can be displayed on the monitor screen in such a manner that the jacket designs displayed on the previous page and the next page can be displayed on the monitor screen by touching the entry displays of "PREVIOUS PAGE" and "NEXT PAGE" on the monitor screen, respectively. Of course, the number of kinds of the jacket designs incorporated in one screen (i.e., one page) may be set arbitrarily.

In this example, the design placed on the center of the left side column shown in Fig. 5 is selected by touching the monitor screen, and then the "JACKET DESIGN CODE B" corresponding to the selected jacket design is created by touching the entry display "OK".

#### 1-4.2. Album Title Entry

After the jacket design selection is completed, the character display of "PLEASE ENTER THE ALBUM TITLE" as well as the items "KEYBOARD ENTRY", "TOUCHSENSOR ENTRY" are displayed on the monitor screen, as shown in Fig. 6. The customer enters the album title on which he/she has decided, through the keyboard or the touchsensor, after having touched either one of the items "KEYBOARD ENTRY" or "TOUCHSENSOR ENTRY". The monitor screen sequentially displays the characters of the title of the album to be entered such as "THE ALBUM TITLE IS "SHOUTA & MAYU". IS IT OK?". The items "CHANGE" and "OK" are displayed simultaneously when either one of the items "KEYBOARD ENTRY" or "TOUCHSENSOR ENTRY" is touched.

The customer implements an entry again with the procedures described above, by touching the item "CHANGE", if he/she desires to change the entered album title, while watching the monitor screen. Further, if the entered album title is all



right as it is, then the "ALBUM TITLE CHARACTER DATA C" corresponding to the album title being displayed is created by touching the item "OK".

#### 1-5. Final Verification Step

After the above mentioned design step is completed, the verification items are displayed on the monitor screen, respectively, as shown in Fig. 7. That is, the contents of the respective items "ALBUM TITLE", "JACKET" and "SELECTED MUSIC" are displayed again for final verification. By touching the item "OK" after having completed this final verification, an indication of the cost for the MD which is intended to be produced, for example, as "YOUR COST IS 1,000 YEN", is displayed on the monitor screen.

#### 1-6. Payment Step

Following the above mentioned final verification step, as shown now in Fig. 8, the items "CREDIT CARD", "PREPAID CARD", and "BANK WITHDRAWAL" are displayed on the monitor screen, along with the character display of "WHAT IS YOUR PAYMENT METHOD?". When the customer has selected the payment method by touching any one of the items on the monitor screen, the character display "PLEASE INSERT THE CARD" is implemented, and then the customer will insert the card corresponding to the selected payment method into the card reader. When the card read by the card reader is confirmed, then the "CARD DATA D" will be produced.

#### 1-7. Transmission Step

After the above mentioned payment step is completed, the "MUSIC CODE GROUP A", "JACKET DESIGN CODE B", "ALBUM TITLE CHARACTER DATA C", "CARD DATA D" and "CUSTOMER CODE E", which have been produced as described above, are transmitted to the host-computer 22 which is provided in the backchannel company 20, through the communication system 14, the telephone line 40 and the communication system

21, as shown in Fig. 1.

## 1-8. Backchannel Company's Work Step (Figs. 9 and 10)

### 1-8.1. MD Disc Production Work

After all the above mentioned steps are completed, the production step of the MD is begun. In the present embodiment, the MD disc production work, i.e., the recording, is implemented in the backchannel company 20.

The input information required for the MD production is "MUSIC CODE GROUP A" as mentioned above. Based on MUSIC CODE GROUP A, the musical composition database 24 in the music database 27 is searched, the musical compositions corresponding to the information of the MUSIC CODE GROUP A are selected from the musical composition database 24, and then the selected musical compositions are high-speed recorded into the MD by the MD writer 28.

### 1-8.2. Jacket Production Work

Further, within the backchannel company 20, based on the "MUSIC CODE GROUP A", "JACKET DESIGN CODE B" and "ALBUM TITLE CHARACTER DATA C", the jacket production work (i.e., printing/thermal transfer) is implemented by the printer 29. Herein, at first, based on the "MUSIC CODE GROUP A", the musical composition list database 23 in the music database 27 is searched, and the attribute of each music is selected from the musical composition list database 23 and the index database 25, and then that information is printed on the predetermined locations of the jacket. Next, based on the "ALBUM TITLE CHARACTER DATA C", the title being input is printed on the title location of the jacket. Then, based on the "JACKET DESIGN CODE B", the selected jacket design is thermally transferred to the front cover of the jacket.

### 1-8.3. Accounting Approval

The host-computer 22 retrieves the accounting approval database 31 in the database 32 on the company side, based on the information of "CARD DATA D" and "CUSTOMER CODE E", and the necessary information is sent from the accounting approval database 31 to the predetermined financial institution such as a credit company and the like, and then the accounting approval of the customer is carried out.

#### 1-8.4. Copyright Process

The host-computer 22 retrieves the musical composition list database 23 and the copyright database 26 in the music database 27, based on the information of "MUSIC CODE GROUP A". The copyright process is carried out by sending the necessary information from the copyright database 26 of the music database 27 to the JASRAC, and the original disc process is carried out by sending the necessary information from the copyright database 26 of the music database 27 to the recording company and the like.

#### 1-8.5. Mailing Work

The host-computer 22 retrieves the customer database 30 in the database 32 of the company side based on the information of "CUSTOMER CODE E", prints the address label of the customer from the information of the customer's address and the like, and mails the MD to the customer after having completed the predetermined packaging. As a result, the customer could receive the ordered MD.

#### 1-9. Musical Composition Database Update Step

It is very important for the customer to obtain information of new musical compositions (the musical composition list, the musical composition data, the index data, and the like). This information is always updated in the backchannel company 20, and new versions of the musical composition list, musical composition

data and index information are stored in the musical composition list database 23, the musical composition data database 24 and the index database 25 of the music database 27, respectively. However, in this embodiment, among this information, only the musical composition list is sent to the communication system 14 in the store 10 through the host-computer 22 and the communication system 21, and then is stored in the musical composition database 12 in the store 10 through the store equipment managing system 13.

In the following, the music database used for the personal musical composition recording media purchasing system according to the present invention, as described above, will be illustrated in detail.

A specification of the music database according to the present invention, which will be described below, is revealed for the first time in the art. The specification includes an accumulable database specification in which music is unified, and the music database is constituted in such a manner that the sound source, the MIDI data, the music score data, and the right attribution data are digitized and then unified. Then, the music database is designed in such a manner that the music is unification-coded and is also enabled to cope with the future market of the music.

Fig. 11 shows one embodiment of the music database which is constituted as described above. This music database includes five categories of (1) the music attribution, (2) the original disc right, (3) the copyright, (4) the music score, and (5) the sound source. Then, each category further includes the information regarding the items described below:

(1) Music Attribution

(1)-1 music code (country code + work code)

- (1)-2 name of musical composition
- (1)-3 minutes for musical composition
- (1)-4 name of artist(s)
- (1)-5 country code of artist(s)
- (1)-6 manufactured date

(2) Original Disc Right

- (2)-1 owner of original disc
- (2)-2 country code
- (2)-3 co-owner
- (2)-4 country code (3) Copyright
  - (3)-1-1 songwriter
  - (3)-1-2 country code
  - (3)-1-3 representative publisher
  - (3)-1-4 country code
  - (3)-1-5 co-publisher
  - (3)-1-6 country code
  - (3)-2-1 musical composer
  - (3)-2-2 country code
  - (3)-2-3 representative publisher
  - (3)-2-4 country code
  - (3)-2-5 co-publisher
  - (3)-2-6 country code
  - (3)-3-1 musical arranger
  - (3)-3-2 country code
  - (3)-3-3 representative publisher

- (3)-3-4 country code
- (3)-3-5 co-publisher
- (3)-3-6 country code
- (4) Music Score
  - (4)-1 MIDI data
  - (4)-2 live music score
  - (4)-3 words
- (5) Sound Source
  - (5)-1 digital sound source

Figs. 12 and 13 respectively show examples of the index information stored in the index database constituting the music database used for the personal musical composition recording media purchasing system according to the present invention. As can be seen from these examples, the index information is the information indicating a part of the information in the music database described above per musical composition, and the index database is the database in which this index information are stored.

The information of the index A shown in Fig. 12 include each of the information listed below:

- (1) Genre ; Japanese Music
- (2) Title of Musical Composition ; AKAI SWEETPEE
- (3) Minutes of Musical Composition; 5 minutes 21 seconds
- (4) Artist ; SEIKO MATSUDA
- (5) Songwriter ; Karuho Kureta
- (6) Musical Composer ; Karuho Kureta
- (7) Manufacture Date ; 1982. 7. 1

(8) Representative Country of

Original Disc ; Japan

(9) Representative Company of

Original Disc ; Sony Music (Japan)

(10) Option I ; (words card)

(11) Option II ; (Music Score)

The information of the index B shown in Fig. 13 include each of the information listed below:

(1) Genre ; Western Music

(2) Title of Musical Composition; YESTERDAY

(3) Minutes of Musical Composition; 4 minutes 50 seconds

(4) Artist ; Beatles

(5) Songwriter ; John Lennon

(6) Musical Composer ; Paul McCartney

(7) Manufacture Date ; 1968. 7. 1

(8) Representative Country

of Original Disc ; England

(9) Representative Company

of Original Disc ; APPLE RECORDS

(10) Option I ; (words card)

(11) Option II ; (Music Score)

The music database which will be described in the following embodiments also has a similar structure as described above, and the purchasing system of the present invention, by adopting this music database, for the customers, a selection of the musical compositions could be made in a global manner, as well as for the

copyrighters, the management of the copyrights associated with the musical compositions could be carried out easily.

Fig. 14 is a schematic diagram showing the second embodiment of the system for purchasing a personal recording media (as before, it is referred to as "a purchasing system") according to the present invention.

As shown in Fig. 14, the main parts of the purchasing system in this embodiment are composed of a store 100, a backchannel company 200, and a broadcasting station 300. The store 100 is connected with the backchannel company 200 using a private line (instead, an internet or a telephone line could be used) 400. Further, the store 100 and the broadcasting station 300, as well as the backchannel company 200 and the broadcasting station 300 are respectively communicated with each other through the satellite waves (instead, ground waves or cable could be used) 401, 402, respectively.

Similar to the first embodiment, the store 100 is the KIOSK and includes a MD production application accepting system 101 (as before, referred to as the "AAS") which is composed of a monitor, a card reader, and a database retrieval/application terminal (not shown), a store side database 105 connected to the AAS 101 and composed of a musical composition list database 102, a musical composition data database 103 and an index database 104, a MD writer 106 connected to the store side database 105, a printer 107 connected to the store side database 105, a communication system 108 connected to the AAS 101, a data broadcasting receiving system 109, and a data broadcasting decoder 110 connected to the store side database 105.

The backchannel company 200 includes a communication system 201 connected to the communication system 108 of the store 100 via a telephone line 400; a



server-client system (hereinafter referred to as the "host-computer") 202 connected to the communication system 201; a music database 207 connected to the host-computer 202 and composed of a musical composition list database 203, a musical composition data database 204, an index database 205 a copyright database 206; and a company side database 210 connected to the host-computer 202 and composed of a customer database 206 an accounting approval database 207.

The broadcasting station 300 includes a communication system 301 connected to the communication system 201 in the backchannel company 200 through the satellite wave 401, a broadcasting data database 302 connected to the communication system 301, a broadcasting data sending server 303 connected to the broadcasting data database 302, and a data broadcasting encoder 304 connected to the data broadcasting receiving system 109 in the store 100 through the broadcasting data sending server 303 and the satellite wave 402.

The purchasing system shown in Fig. 14 is so configured that a customer could select a preferred artist or musician and a preferred musical composition thereof, individually, in a store located nearby such as a convenience store or a gas station, the customer could produce a MD onto which the selected musical compositions are digitally copied in the store.

In the following, referring to Figs. 15 to 23, an operation of the purchasing system shown in Fig. 14 will be described in detail.

#### 2-1. Membership Recognition Step

At first, a switch of the purchasing system is turned on by touching an item "START" on a screen of a touchsensor type monitor in the AAS 101. A word "WELCOME" is displayed on the monitor screen, and then words "PLEASE INSERT A CARD" are displayed on the screen.

When the customer is a registered member of the purchasing system, then he/she should insert his/her member card into the card reader of the AAS 101. Further, when the customer is a non-registered member, he/she should apply for a membership registration at the store and purchase a new member card, and then insert the purchased member card into the card reader.

Herein, as is the case with the first embodiment, the purchasing system can be constituted as having a new membership card manufacturing function such that a new member card can be automatically manufactured based on anything which can verify the customer's identification, such as the customer's driver's license or bank card.

After the card reader has read the member's card, the words "PLEASE ENTER YOUR PERSONAL IDENTIFICATION NUMBER" are displayed on the monitor. According to the display thereof, the customer will enter a PIN which is a unique for each member. The entry of the PIN can be implemented by touching the alphanumeric characters displayed on the monitor screen. The information of the entered PIN and the information of the member registration number of the member card, which has been read in advance by the card reader, are transmitted from the communication system 108 via the telephone line 400 to the host-computer 202 through the communication system 201 of the backchannel company 200.

In the backchannel company 200, the host-computer 202 searches the customer managing database 208 of the company side database 210 based on the information of the PIN and the member registration number transmitted from the store 100, and matches whether or not the customer is a valid member, and then transmits the information concerning the result of that match from the communication system 201 via the telephone line 400 to the AAS 101 through the

communication system 107 of the store 100. Further, the host-computer 202 will produce a customer code E when the customer is a valid member.

The AAS 101 in the store 100 displays the words "OK" on the monitor screen's display when the customer is a valid member, based on the received information concerning the result of the match. On the other hand, when the customer is an invalid member, then the AAS 101 displays the words "INVALID" on the monitor screen's display. In case the wrong PIN was entered during the above mentioned operation, it could be constituted such that the PIN can be re-entered by displaying the words "INVALID" on the screen, and then displaying the words "PLEASE ENTER YOUR PERSONAL IDENTIFICATION NUMBER AGAIN WITH GREAT CARE" on the screen.

In this case, in view of security, it could be constituted such that a limit would be imposed on the number of times that the PIN can be re-entered. And if the match could not be made within the defined number of times for the re-entry, the purchasing system is automatically turned off.

When the words "OK" are displayed on the monitor screen in the above mentioned step, the monitor displays the words "LET'S SELECT THE MUSICAL COMPOSITIONS" on the screen, and then the operation will proceed to the musical composition selection step.

## 2-2. Musical Composition Selection Step

As shown in Fig. 16A, the musical composition selection items for "the first music piece" are displayed on the monitor screen. In these musical composition selection items, the items of (a) the title of a musical composition, (b) the name of an artist, (c) the title of an album, (d) the names of the songwriter/composer, (e) the category, (f) the manufactured date, (g) a portion

of the words, (h) a portion of the melody (tune), and (i) the recommended lineup are displayed, respectively.

The customer enters the necessary information by looking at the musical composition selection items displayed on the monitor screen, in order to select the first music piece. There are various methods of entering this information. For example, the necessary information can be entered by using the keyboard or can be directly written on the screen by using a touch pen.

The AAS 101 will obtain the necessary information by searching the musical composition list database 102 and the index database 104 which are included in the store side database 105, based on the information entered on the monitor screen.

As an example, Fig. 16B shows the monitor screen when the customer has entered (b) the name of an artist, (g) a portion of the words, and (h) a portion of the melody, respectively.

Herein, as is the case with the first embodiment described above, it could be constituted such that a voice recognition method can be adopted for the entry of (i) a portion of the melody, and making a recognition of the melody that the customer is singing by using that recognition method, and it could be constituted such that the recognized melody is further converted to the score corresponding thereto, and then the converted score is displayed on the screen of the monitor.

After these entries have been completed, the search is implemented by pushing the "search button" which is displayed on the monitor screen, and then the search result such as shown in Fig. 16C is displayed on the monitor screen. That is, as a result of the search, the title of the first music piece, "AND I LOVE HER" in this example, as well as its music code "044ESPD382409" are displayed

on the monitor screen, and the selection items of "SELECTION BUTTON", "CANCEL BUTTON", "END BUTTON" are displayed on the monitor screen at the same time.

The customer verifies the first music piece displayed on the monitor screen, and then touches the "SELECTION BUTTON" if the entered information is confirmed. When the "SELECTION BUTTON" is touched, the music code is accumulated into a hard disc of the AAS 101, as well as the musical composition selection items for the second music piece are displayed on the monitor screen. The musical composition selection for the second music piece is implemented according to the same procedure. The music codes for the desired musical compositions are accumulated sequentially by repeating the procedure until the desired number of music pieces is reached.

When all the music piece selections have been completed, the musical composition selection is completed by touching the "END BUTTON" selection item after the validation result of the last music piece has been displayed on the monitor screen.

### 2-3. Musical Composition Editing Step

By touching "END BUTTON" in the above mentioned step, as shown in Fig. 17, after having displayed the words "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:", the musical compositions selected in the above mentioned musical composition selection step are displayed on the screen.

In this example, the selected musical compositions are displayed on the monitor screen as:

- |    |                |                    |
|----|----------------|--------------------|
| 1. | AND I LOVE HER | BEATLES            |
| 2. | SATISFACTION   | THE ROLLING STONES |
| 3. | SOME MIGHT SAY | OASIS              |
| 4. | LET IT BE      | BEATLES            |

## 5.        LIKE A VIRGIN        MADONNA

and the selection items "SORT", "DELETE", "ADD" and "OK" are displayed on the monitor screen at the same time.

## 2-3.1. Sorting of Musical Compositions

In the following, the sorting procedures of the orders for the selected musical compositions will be described.

By touching the item "SORT" on the monitor screen, as shown below, on the monitor screen, brackets are displayed on the right side of the musical compositions, respectively:

- |    |                |                    |     |
|----|----------------|--------------------|-----|
| 1. | AND I LOVE HER | BEATLES            | [ ] |
| 2. | SATISFACTION   | THE ROLLING STONES | [ ] |
| 3. | SOME MIGHT SAY | OASIS              | [ ] |
| 4. | LET IT BE      | BEATLES            | [ ] |
| 5. | LIKE A VIRGIN  | MADONNA            | [ ] |

In this example, because the first and the third musical compositions are to be sorted, the order of the musical compositions are changed to the order of 3. 2. 1. 4. 5. by entering the numbers 3, 2, 1, 4, 5 into the blank squares from the top to the bottom in order. Of course, it could be constituted such that the order of the musical compositions can be sorted by using other commonly known methods such as one utilizing a cursor.

On the monitor screen, the item "OK" is displayed at the same time, and by touching "OK" when the desired sorting has been completed, the monitor screen returns to the display of "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:", and the sort changed musical compositions, such as shown in below, are displayed:

- |    |                |       |
|----|----------------|-------|
| 3. | SOME MIGHT SAY | OASIS |
|----|----------------|-------|

- |    |                |                    |
|----|----------------|--------------------|
| 2. | SATISFACTION   | THE ROLLING STONES |
| 1. | AND I LOVE HER | BEATLES            |
| 4. | LET IT BE      | BEATLES            |
| 5. | LIKE A VIRGIN  | MADONNA            |

Then, by touching the item "OK" on the screen, the display of "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:" is so displayed as to be renumbered such as;

- |    |                |                    |
|----|----------------|--------------------|
| 1. | SOME MIGHT SAY | OASIS              |
| 2. | SATISFACTION   | THE ROLLING STONES |
| 3. | AND I LOVE HER | BEATLES            |
| 4. | LET IT BE      | BEATLES            |
| 5. | LIKE A VIRGIN  | MADONNA            |

### 2-3.2. Deletion of Musical Compositions

Deletion of selected musical compositions can be implemented by touching the item "DELETE" on the monitor screen. By touching the item "DELETE", the character display "PLEASE TOUCH THE MUSICAL COMPOSITION(S) TO BE DELETED" is made, and further the list of the selected musical compositions:

- |    |                |                    |
|----|----------------|--------------------|
| 1. | AND I LOVE HER | BEATLES            |
| 2. | SATISFACTION   | THE ROLLING STONES |
| 3. | SOME MIGHT SAY | OASIS              |
| 4. | LET IT BE      | BEATLES            |
| 5. | LIKE A VIRGIN  | MADONNA            |

is displayed on the monitor screen, as well as the selection item "OK" is also displayed at the same time.

Herein, when deleting "2. SATISFACTION THE ROLLING STONES" in the musical composition list, the part of the musical composition "2. SATISFACTION

THE ROLLING STONES" is removed from the list by touching the corresponding musical composition display portion on the monitor screen, and only that portion is displayed on the new page in the screen of the monitor with the selection item "OK" as:

WILL BE DELETED

2. SATISFACTION THE ROLLING STONES

Herein, by touching the item "OK", the monitor screen displays again as shown below by renumbering the musical compositions except the deleted musical composition:

1.	AND I LOVE HER	BEATLES
2.	SOME MIGHT SAY	OASIS
3.	LET IT BE	BEATLES
4.	LIKE A VIRGIN	MADONNA

#### 2-3.3. Addition of Musical Compositions

When newly adding a musical composition, the monitor screen displays the words "THE MUSICAL COMPOSITION WILL BE ADDED" by touching the selection item "ADD", and returns to the screen of "The Musical Composition Selection Step" as described above. Then, as described above, a new musical composition can be added by operating a necessary procedure while watching the monitor screen.

"THE GROUP A OF THE MUSIC CODES" corresponding to the edited musical compositions are created by touching the item "END BUTTON" on the screen after having implemented the necessary operations in the above mentioned musical composition editing step. Also, as described below, the monitor screen will shift to the next step by touching the item "END BUTTON".

#### 2-4. Design Step

In this step, the jacket design selection and the album title entry of



the MD are implemented.

#### 2-4.1. Jacket Design Selection

With a completion of the musical composition editing step as described in the above step 3, in this example, nine kinds of jacket design are displayed on one screen (i.e., one page) of the monitor, as shown in Fig. 18 along with the character display of "PLEASE SELECT THE FAVORITE JACKET". Jacket designs on other pages of the monitor screen can be displayed on the monitor screen in such a manner that the jacket designs displayed on the previous page and the next page can be displayed on the monitor screen by touching the entry displays of "PREVIOUS PAGE" and "NEXT PAGE" on the monitor screen, respectively. Of course, the number of kinds of the jacket designs incorporated in one screen (i.e., one page) may be set arbitrarily.

In this example, the design placed on the center of the left side column shown in Fig. 18 is selected by touching the monitor screen, and then the "JACKET DESIGN CODE B" corresponding to the selected jacket design is created by touching the entry display "OK".

#### 2-4.2. Album Title Entry

After the jacket design selection is completed, the character display of "PLEASE ENTER THE ALBUM TITLE" as well as the items "KEYBOARD ENTRY", "TOUCHSENSOR ENTRY" are displayed on the monitor screen, as shown in Fig. 19. The customer enters the album title on which he/she has decided, through the keyboard or the touchsensor, after having touched either one of the items "KEYBOARD ENTRY" or "TOUCHSENSOR ENTRY". The monitor screen sequentially displays the characters of the title of the album to be entered such as "THE ALBUM TITLE IS "LOVE SONGS". IS IT OK?". The items "CHANGE", "OK" are displayed simultaneously when either one of the items "KEYBOARD ENTRY" or "TOUCHSENSOR ENTRY" is touched.

The customer implements an entry again with the procedures described above, by touching the item "CHANGE", if he/she desires to change the entered album title, while watching the monitor screen. Further, if the entered album title is all right as it is, then the "ALBUM TITLE CHARACTER DATA C" corresponding to the album title being displayed is created by touching the item "OK".

#### 2-5. Final Verification Step

After the above mentioned design step is completed, the verification items such as shown in Fig. 20 are displayed on the monitor screen, respectively. That is, the contents of the respective items "ALBUM TITLE", "JACKET" and "SELECTED MUSIC" are displayed again for final verification. By touching the item "OK" after this final verification is complete, an indication of the cost for the MD which is intended to be produced, for example, as "YOUR COST IS 1,000 YEN", is displayed on the monitor screen.

#### 2-6. Payment Step

Following the above mentioned final verification step, as shown in Fig.

21, the items "CREDIT CARD", "PREPAID CARD", and "BANK WITHDRAWAL" are displayed on the monitor screen along with the character display of "WHAT IS YOUR PAYMENT METHOD?". When the customer has selected the payment method by touching any one of the items on the monitor screen, the character display of "PLEASE INSERT THE CARD" is implemented, and the customer will then insert the card corresponding to the selected payment method into the card reader. When the card read by the card reader is confirmed, then the "CARD DATA D" will be produced.

Next, referring to Fig. 23, the work steps in the store 100 and the backchannel company 200 will be described.

## 2-7. MD Production Step

### 2-7.1. MD Disc Production Work

After the above mentioned steps 1 to 6 are completed, the production step of the MD is begun. In the present embodiment, the MD disc production work, i.e., the recording, is implemented in the KIOSK, that is, in the store 100 such as the convenience store or the gas station and the like.

The input information required for the MD production is "MUSIC CODE GROUP A" as mentioned above. Based on MUSIC CODE GROUP A, the musical composition data database 103 in the store side database 105 is searched, and the musical compositions corresponding to the information of the MUSIC CODE GROUP A are selected from the musical composition data database 103, and then the selected musical compositions are high-speed recorded into the MD by the MD writer 106.

### 2-7.2. Jacket Production Work

Further, within the store 100, based on the "MUSIC CODE GROUP A", "JACKET DESIGN CODE B" and "ALBUM TITLE CHARACTER DATA C", the jacket production work (i.e., printing/thermal transfer) is implemented by the printer 107. Herein, at first,

based on the "MUSIC CODE GROUP A", the musical composition list database 102 in the store side database 105 is searched, and the attribute of each music is selected from the musical composition list database 102 and the index database 104, and then that information is printed on the predetermined locations of the jacket. Next, based on the "ALBUM TITLE CHARACTER DATA C", the title being input is printed on the title location of the jacket. Then, based on the "JACKET DESIGN CODE B", the selected jacket design is thermally transferred to the front cover of the jacket. When the above mentioned MD disc production work and the above mentioned jacket production work are completed, the customer could obtain the desired MD at the store 100 such as the KIOSK and the like.

#### 2-7. Transmission Step

After the above mentioned payment step is completed, the "MUSIC CODE GROUP A", "CARD DATA D" and "CUSTOMER CODE E", which have been produced as described above, are transmitted to the host-computer 202 which is provided in the backchannel company 200 through the communication system 108, the telephone line 400 and the communication system 201, as shown in Fig. 14.

#### 2-9. Backchannel Company's Work Step

##### 2-9.1. Accounting Approval

The host-computer 202 retrieves the accounting approval database 209 in the company side database 210, based on the information of "CARD DATA D" and "CUSTOMER CODE E", and the necessary information is sent from the accounting approval database 209 to the predetermined financial institution such as a credit company and the like, and then the accounting approval of the customer is carried out.

##### 2-9.2. Copyright Process

The host-computer 202 retrieves the musical composition list database 203 and the copyright database 206 in the music database 207, based on the information of "MUSIC CODE GROUP A". The copyright process is carried out by sending the necessary information from the copyright database 206 of the music database 207 to the JASRAC, and the original disc process is carried out by sending the necessary information from the copyright database 206 of the music database 207 to the recording company and the like.

#### 2-10. Musical Composition Database Update Step

It is very important for the customer to obtain information of new musical compositions (the musical composition list, the musical composition data, the index data, and the like). This information is transmitted from the broadcasting station 300 to the store 100 by satellite wave and the like 402.

The backchannel company reads the new versions of the musical composition list, the musical composition data and the index information from the musical composition list database 203, the musical composition data database 204 and the index database 205 of the music database 207, respectively using the host-computer 202, and then transmits this information from the communication system 201 to the communication system 301 in the broadcasting station 300 by satellite wave (instead, it is possible to use the telephone line or the private line).

In the broadcasting station 300, the new versions of the musical composition list, the musical composition data, the index information are stored in the broadcasting data database 302. The broadcasting data sending server 303 sends the new versions of the musical composition list, the musical composition data, the index information stored in the broadcasting data database 302 to the data broadcasting encoder 304. The data broadcasting encoder 304 converts this

information to transmission signals by encoding them, and then transmits the transmission signals to the data broadcasting receiving system 109 in the store 100 by satellite wave and the like 402.

The data broadcasting receiving system 109 in the store 100, which has received the encoded signals, sends these signals to the data broadcasting decoder 110. Then, the data broadcasting decoder 110 decodes the received signals, reads the new versions of the musical composition list, the musical composition data and the index information, and stores these new versions of the musical composition list, the musical composition data and the index information in the musical composition list database 102, the musical composition data database 103 and the index database 104 in the store side database 105, respectively.

Accordingly, the purchasing system according to the present embodiment is so configured that the newest music information is always stored in the store 100, and thus it could respond to the needs for the customers.

Fig. 24 is a schematic diagram showing the third embodiment of the system for purchasing a personal recording media (as before, it is referred to as "a purchasing system") according to the present invention.

Before describing the structure of Fig. 24, the features of the third embodiment will be described below. The substantial differences in the third embodiment from the first and the second embodiments are such that it is adapted to implement the MD application at the customer's home, and the new music is applied through the data broadcasting.

The third embodiment is a service directed to specific members only:

- (1) Only the new musical composition list (music codes) will be sent from the broadcasting station 1300 using the data broadcasting;

- (2) The desired new music will be clicked while watching TV programs, such as "MTV", "Countdown TV" and the like;
- (3) Accessing host-computer 1202 when several numbers of the desired music are accumulated;
- (4) The compilation MD will be delivered to the home 1100; and
- (5) The copyright approval process will be implemented.

In the following, the prerequisites in the third embodiment will be described:

A. The member (customer) should already have a PC/TV at home by purchasing it, or the dedicated board should have been attached to the PC which has been already at home by purchasing it, and the PC TV is connected to the telephone line in the home; B. When new music is released, the recording company will submit a notification of the necessary attributes to the music database, and then the music code will be allocated, accordingly;

C. Implementing the music broadcasting by embedding the music code (+ alpha) into the broadcasting band which is not used for general broadcasting (e.g., a TV program such as "MTV" and the like);

D. Accumulating the music codes (+ alpha) sent from the broadcasting station 1300 into the PC/TV hard disc by operating a remote controller, a keyboard, or a mouse, and then transmitting them;

(This PC/TV is preferably linked to the music database homepage, and the musical composition list database within the hard disc thereof is always updated thereby.)

E. The broadcasting band which is not used for general broadcasting refers to each band of the data broadcasting, the teletext broadcasting, sub-sound broadcasting;

- F. It can be utilized as a system which is adapted to simplify the application work by encoding ticket information and general product information;
- G. It can be utilized as a system for a radio broadcasting; and
- H. It is also possible to use an IC card.

As shown in Fig. 24, the main parts of the purchasing system in this embodiment are composed of a home 1100, a backchannel company 1200, and a broadcasting station 1300. The home 1100 is connected with the backchannel company 1200 using a telephone line (instead, an internet or a private line could be used) 1400. Further, the home 1100 and the broadcasting station 1300, as well as the backchannel company 1200 and the broadcasting station 1300 are respectively communicated with each other through the satellite waves (instead, ground waves or cable could be used) 1401, 1402, respectively.

The home 1100 is a residence and the like of the customer, and includes a MD production application accepting system 1101 (the "AAS"), a musical composition list database 1102 connected to the AAS 1101, a communication system 1103 connected to the AAS 1101, a data broadcasting decoder 1105 connected to the musical composition list data 1102, and a data broadcasting receiving system 1104 connected to the data broadcasting decoder 1105.

The backchannel company 1200 includes a communication system 1201 connected to the communication system 1103 of the home 1100 via a telephone line 1400; a server-client system (the "host-computer") 1202 connected to the communication system 1201; a music database 1207 connected to the host-computer 1202 and composed of a musical composition list database 1203, a musical composition data database 1204, an index database 1205 and a copyright database 1206; and a company side database 1210 connected to the host-computer 1202 and



composed of a customer database 1206 and an accounting approval database 1207. Further, the MD writer 1211 and the printer 1212 are connected to the music database 1207, respectively.

The broadcasting station 1300 includes a communication system 1301 connected to the communication system 1201 in the backchannel company 1200 through the satellite wave 1401, a broadcasting data database 1302 connected to the communication system 1301, a broadcasting data sending server 1303 connected to the broadcasting data database 1302, and a data broadcasting encoder 1304 connected to the data broadcasting receiving system 1104 in the home 1100 through the broadcasting data sending server 1303 and the satellite wave 1402. This third embodiment differs from the first and the second embodiments described above in that it is configured such that the musical composition list (= music codes) is data-broadcast from the broadcasting station, and the MD can be applied at the home. The applied MD will be delivered from backchannel company 1200 to the home 1100.

In the following, an operation of the purchasing system of the third embodiment will be described in detail.

Assuming that a recording company M has produced, for example, a new music recording "LOVE YOU" of SEIKO MATSUDA. The recording company M will immediately register that new music to the music database. By registering, a music code for that new music, for example 081AMDM029988, is provided. Then, the recording company M puts the new music "LOVE YOU" of SEIKO MATSUDA on air in the TV program "Countdown TV" by bringing the promotional video tape of the new music "LOVE YOU" on which the music code 081AMDM029988 is provided into the TV program "Countdown TV" of the commercial broadcasting station TBS, and transmits the music code

081AMDM029988 with the data broadcasting band at the same time.

It is assumed that, on a monitor screen of the PC TV which is connected to the telephone line, the TV program "Countdown TV" is turned on, and just the new music "LOVE YOU" of SEIKO MATSUDA is on air.

Fig. 25 shows a monitor screen of the PC/TV at the home 1100. Herein, it is assumed that in the main broadcasting (in the above case, it is the TV program "Countdown TV" of TBS) a scene of the new music "LOVE YOU" of a singer A (in the above case, it is SEIKO MATSUDA) is running on the air, and then a scene of the new music "HOW TO BE A GIRL" of a singer B (in this case, NAMIE AMURO) is running on the air.

### 3-1. Selection

The entry displays "SELECTION" and "APPLICATION" are shown on the monitor screen of the PC/TV. Herein, assuming that the entry display "SELECTION" is blinking in order to indicate a possibility of capturing, then by clicking or touching this blinking entry display "SELECTION", the music code 081AMDM029988 corresponding to the new music "LOVE YOU" is stored into the hard disc of the PC/TV.

Similarly, the customer (the member) selects the new music "HOW TO BE A GIRL" of NAMIE AMURO during the same main broadcasting (the broadcasting of the TV program "Countdown TV" of TBS), and then the music code corresponding to this music is stored into the hard disc of the PC/TV.

By doing so, it is assumed that, by selecting eight music selections during the same main broadcasting, the music codes for eight music selections are stored into the hard disc of the PC/TV when the TV program "Countdown TV" has been completed. Further, it is assumed that the customer (the member) has selected seven music selections during the broadcasting of other TV program, the music codes

for seven music selections are stored into the hard disc of the PC/TV when that TV program has been completed. In the above case, the music codes for the total of fifteen music selections are stored into the hard disc of the PC/TV.

### 3-2. Application

The process moves to the application operation, as shown in Fig. 26, when the selection step of the above has been completed.

By clicking (or touching) the entry display "APPLICATION" on the monitor screen of the PC/TV, the entry displays "MUSIC", "SHOPPING", "TICKET" are displayed on the monitor screen. The item "MUSIC" is clicked in this embodiment.

By clicking the item "MUSIC", in this embodiment, the "THE GROUP A OF MUSIC CODES" composed of the music codes of fifteen music selections, as well as the "CUSTOMER CODE E" are produced. Further, at the same time, a browser within the hard disc of the PC/TV is started-up automatically, and as shown in Fig. 27, after the words "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:" are displayed, the musical compositions selected in the above mentioned manner are displayed on the screen.

In this example, the selected musical compositions are displayed on the monitor screen as:

- |    |                  |                    |
|----|------------------|--------------------|
| 1. | LOVE YOU         | SEIKO MATSUDA      |
| 2. | HOW TO BE A GIRL | NAMIE AMURO        |
| 3. | FOR THE MOMENT   | EVERY LITTLE THING |

\* \* \*

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IKIRUMICHI PUFFY

and the selection items "SORT", "DELETE", "ADD" and "OK" are displayed on the

monitor screen at the same time.

### 3-2.1. Sorting of Musical Compositions

In the following, the sorting procedures of the orders for the selected musical compositions will be described.

By touching the item "SORT" on the monitor screen, as shown below, on the monitor screen, brackets [ ] are displayed on the right side of the musical compositions, respectively:

- |    |                  |                    |     |
|----|------------------|--------------------|-----|
| 1. | LOVE YOU         | SEIKO MATSUDA      | [ ] |
| 2. | HOW TO BE A GIRL | NAMIE AMURO        | [ ] |
| 3. | FOR THE MOMENT   | EVERY LITTLE THING | [ ] |

\* \* \*

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IKIRUMICHI

In this example, because the first and the third musical compositions are to be sorted, the order of the musical compositions are changed to the order of 3. 2. 1. 4.... 15. by entering the numbers 3, 2, 1, 4, ..., 15 into the brackets [ ] from the top to the bottom in order. Of course, it could be constituted such that the order of the musical compositions can be sorted by using other commonly known methods such as one which utilizes a cursor. On the monitor screen, the item "OK" is displayed at the same time, and by touching "OK" when the desired sorting has been completed, the monitor screen returns to the display of the "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:", and the sort changed musical compositions, such as shown in below, are displayed:

- |    |                  |                    |
|----|------------------|--------------------|
| 3. | FOR THE MOMENT   | EVERY LITTLE THING |
| 2. | HOW TO BE A GIRL | NAMIE AMURO        |

1. LOVE YOU SEIKO MATSUDA

\* \* \*

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Then, by touching the item "OK" on the screen, the display of "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:" is so displayed as to be renumbered such as;

1. FOR THE MOMENT EVERY LITTLE THING

2. HOW TO BE A GIRL NAMIE AMURO

3. LOVE YOU SEIKO MATSUDA

\* \* \*

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### 3-2.2. Deletion of Musical Compositions

Deletion of selected musical compositions can be implemented by touching the item "DELETE" on the monitor screen. By touching the item "DELETE", the character display "PLEASE TOUCH THE MUSICAL COMPOSITION(S) TO BE DELETED" is made, and further the list of the selected musical compositions:

1. FOR THE MOMENT EVERY LITTLE THING

2. HOW TO BE A GIRL NAMIE AMURO

3. LOVE YOU SEIKO MATSUDA

\* \* \*

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is displayed on the monitor screen, as well as the selection item "OK" is also displayed at the same time.

Herein, when deleting the musical composition "3. LOVE YOU SEIKO MATSUDA" in the musical composition list, the part of the musical composition "3. LOVE YOU SEIKO MATSUDA" is removed from the list by touching the corresponding musical composition display portion on the monitor screen, and only that portion is displayed on the new page in the screen of the monitor with the selection item "OK" as:

WILL BE DELETED

3. LOVE YOU SEIKO MATSUDA

Herein, by touching the item "OK", the monitor screen displays again as shown below by renumbering the musical compositions except the deleted musical composition:

1. FOR THE MOMENT EVERY LITTLE THING

2. HOW TO BE A GIRL NAMIE AMURO

\* \* \*

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### 3-2.3. Addition of Musical Compositions

When newly adding a musical composition, the monitor screen displays the words "THE MUSICAL COMPOSITION WILL BE ADDED" by touching the selection item "ADD", and returns to the screen of "The Musical Composition Selection Step" as described above. Then, as described above, a new musical composition can be added by operating a necessary procedure while watching the monitor screen.

"THE GROUP A OF THE MUSIC CODES" corresponding to the edited musical compositions are created by touching the item "END BUTTON" on the screen after having implemented the necessary operations in the above mentioned musical composition editing step. Also, as described below, the monitor screen will shift

to the next step by touching the item "END BUTTON".

### 3-3. Design Step

In this step, the jacket design selection and the album title entry of the MD are implemented. Since this step is the same as the one in the first embodiment, the same description will be repeated below.

#### 3-3.1. Jacket Design Selection

With the completion of the musical composition editing step as described in the above step 3, in this example, nine kinds of jacket design are displayed on one screen (i.e., one page) of the monitor, as shown in Figs. 5 and 18, along with the character display of "PLEASE SELECT THE FAVORITE JACKET". Jacket designs on other pages of the monitor screen can be displayed on the monitor screen in such a manner that the jacket designs displayed on the previous page and the next page can be displayed on the monitor screen by touching the entry displays of "PREVIOUS PAGE" and "NEXT PAGE" on the monitor screen, respectively. Of course, the number of kinds of the jacket designs incorporated in one screen (i.e., one page) may be set arbitrarily. Once the jacket design has been selected by touching the monitor screen, the "JACKET DESIGN CODE B" corresponding to the selected jacket design is created by touching the entry display "OK".

#### 3-3.2. Album Title Entry

After the jacket design selection is completed, the character display of "PLEASE ENTER THE ALBUM TITLE" as well as the items "KEYBOARD ENTRY", "TOUCHSENSOR ENTRY" are displayed on the monitor screen, as shown in Figs. 6 and 19. The customer enters the album title on which he/she has decided, through the keyboard or the touchsensor, after having touched either one of the items "KEYBOARD ENTRY" or "TOUCHSENSOR ENTRY". The monitor screen sequentially displays the characters of

the title of the album to be entered such as "THE ALBUM TITLE IS "LOVE SONGS". IS IT OK?". The items "CHANGE" and "OK" are displayed simultaneously when either one of the items "KEYBOARD ENTRY" or "TOUCHSENSOR ENTRY" is touched.

The customer implements an entry again with the procedures described above, by touching the item "CHANGE", if he/she desires to change the entered album title, while watching the monitor screen. Further, if the entered album title is all right as it is, then the "ALBUM TITLE CHARACTER DATA C" corresponding to the album title being displayed is created by touching the item "OK".

#### 3-4. Final Verification Step

After the above mentioned design step is completed, the verification items such as shown in Fig. 28 are displayed on the monitor screen, respectively. That is, the contents of the respective items "ALBUM TITLE", "JACKET" and "SELECTED MUSIC" are displayed again for final verification. By touching the item "OK" after this final verification is complete, an indication of the cost for the MD which is intended to be produced, for example, as "YOUR COST IS 2,000 YEN", is displayed on the monitor screen.

#### 3-5. Payment Step

Following the above mentioned final verification step, the items "CREDIT CARD", "PREPAID CARD", and "BANK WITHDRAWAL" are displayed on the monitor screen, as shown in Fig. 29, along with the character display of "WHAT IS YOUR PAYMENT METHOD?". When the customer has selected the payment method by touching any one of the items on the monitor screen, the character display "PLEASE INSERT THE CARD" is implemented, and the customer will then insert the card corresponding to the selected payment method into the card reader. When the card read by the card reader is confirmed, the "CARD DATA D" will then be produced.



### 3-6. Transmission Step

After the above mentioned payment step is complete, as shown in Fig. 30, the "MUSIC CODE GROUP A", "CARD DATA D" and "CUSTOMER CODE E", which have been produced as described above, are transmitted to the host-computer 202 which is provided in the backchannel company 200 through the communication system 108, the telephone line 400 and the communication system 201, as shown in Fig. 24.

### 3-7. Backchannel Company Work Steps

Fig. 31 shows the work steps in the backchannel company 1200.

#### 3-7.1. MD Disc Production Work

After the above mentioned steps are complete, the production step of the MD is begun. In the present embodiment, the MD disc production work, i.e., the recording, is implemented in the backchannel company 1200. The input information required for the MD production is "MUSIC CODE GROUP A" as mentioned above. Based on MUSIC CODE GROUP A, the musical composition data database 1204 in the music database 1207 in the backchannel company 1200 is searched, and the musical compositions corresponding to the information of the MUSIC CODE GROUP A are selected from the musical composition data database 1204, and then the selected musical compositions are high-speed recorded into the MD by the MD writer 1211.

#### 3-7.2. Jacket Production Work

Further, in the backchannel company 1200, based on the "MUSIC CODE GROUP A", "JACKET DESIGN CODE B" and "ALBUM TITLE CHARACTER DATA C", the jacket production work (i.e., printing/ thermal transfer) is implemented by the printer 1212. Herein, at first, based on the "MUSIC CODE GROUP A", the musical composition list database 1203 in the music database 1207 is searched, and the attribute of each music is selected from the musical composition list database 1203 and the

index database 1205, and then that information is printed on the predetermined locations of the jacket. Next, based on the "ALBUM TITLE CHARACTER DATA C", the title being input is printed on the title location of the jacket. Then, based on the "JACKET DESIGN CODE B", the selected jacket design is thermally transferred to the front cover of the jacket.

### 3-7.3. Accounting Approval

The host-computer 1202 retrieves the customer database 1208 and the accounting approval database 1209 in the company side database 1210, based on the information of "CARD DATA D" and "CUSTOMER CODE E", and the necessary information is sent from these database 1208 and 1209 to the predetermined financial institution such as a credit company and the like, and then the accounting approval of the customer is carried out.

### 3-7.4. Copyright Process

The host-computer 1202 retrieves the musical composition list database 1203 and the copyright database 1206 in the music database 1207, based on the information of "MUSIC CODE GROUP A". The copyright process is carried out by sending the necessary information from the copyright database 1206 of the music database 1207 to the JASRAC, and the original disc process is carried out by sending the necessary information from the musical composition list database 1203 of the music database 1207 to the recording company and the like.

### 3-7.5. Mailing Work

The host-computer 1202 retrieves the customer database 1208 in the company side database 1210, based on the information of the "CUSTOMER CODE E", and then prints the address label of the customer from the information such as the customer's address, and the like, and then mails the MD after having completed

a predetermined packing. As a result of this, the customer can receive the ordered MD.

Fig. 32 is a schematic diagram showing the fourth embodiment of the system for purchasing a personal recording media (as before, it is referred to as "a purchasing system") according to the present invention.

As shown in Fig. 32, the main parts of the purchasing system in this embodiment are composed of a home 2100, a backchannel company 2200, and a broadcasting station 2300. The home 2100 is connected with the backchannel company 2200 using a telephone line (instead, an internet or a private line could be used) 2400. Further, the home 2100 and the broadcasting station 2300, as well as the backchannel company 2200 and the broadcasting station 2300 are respectively communicated with each other through the satellite waves (instead, ground waves or cable could be used) 2401, 2402, respectively.

The home 2100 includes a MD production application accepting system 2101 (the "AAS") including the PC/TV; a home side database 2105 connected to the AAS 2101 and composed of a musical composition list database 2102, a musical composition data database 2103 and an index database 2104; a MD writer 2106 connected to the home side database 2105; a printer 2107 connected to the home side database 2105; a communication system 2108 connected to the AAS 2101; a data broadcasting receiving system 2109; and a data broadcasting decoder 2110 connected to the home side database 2105.

The backchannel company 2200 includes a communication system 2201 connected to the communication system 2108 of the home 2100 via a telephone line and the like 2400; a server-client system (the "host-computer") 2202 connected to the communication system 2201; a music database 2207 connected to the

host-computer 2202 and composed of a musical composition list database 2203, a musical composition data database 2204, an index database 2205 and a copyright database 2206, and a company side database 2210 connected to the host-computer 2202 and composed of a customer database 2206 and an accounting approval database 2207.

The broadcasting station 2300 includes a communication system 2301 connected to the communication system 2201 in the backchannel company 2200 through the satellite wave 2401, a broadcasting data database 2302 connected to the communication system 2301, a broadcasting data sending server 2303 connected to the broadcasting data database 2302, and a data broadcasting encoder 2304 connected to the data broadcasting receiving system 2109 in the home 100, through the broadcasting data sending server 2303 and the satellite wave 2402.

Before describing the structure of Fig. 32, the features of the fourth embodiment will be described below.

Although this fourth embodiment resembles the third embodiment described above, the substantial difference is that it is configured to produce a MD at home, and the new music can be the MD produced with the data broadcasting. Further, the purchasing system of the fourth embodiment is a service directed to the specific member:

- (1) The musical composition list (music codes) and the musical composition data will be sent from the broadcasting station 2300 using the data broadcasting;
- (2) The utilization status is suck up with the telephone line;
- (3) The copyright approval process is implemented.

In the following, the prerequisites in the fourth embodiment are described:

- A. The musical composition list database is stored in the hard disc within the PC/TV (a maintenance is updated by a telephone line at midnight).
- B. A musical composition list (music codes) and a musical composition data (digital sound source) of a new musical composition is coming down through the data broadcasting. A dedicated decoder is used.
- C. A person who wants to purchase a new musical composition will click a button during the main broadcasting. At that moment, the musical composition list (music codes) is accumulated and will be sent to the host-computer together with a member code. An approval code will be sent back from the host-computer. Further, the musical composition data (the music sound source) is stored into the hard disc once, but a watermark will be input only by matching with the above mentioned approval code, and the decipherment will be implemented. Then, only once, it is high-speed recorded from the hard disc to the MD.

In the following, referring to Figs. 33 to 38, an operation of the purchasing system of the fourth embodiment will be described in detail.

Assuming that a recording company M has produced, for example, a new music recording "LOVE YOU" of SEIKO MATSUDA. The recording company M will immediately register that new music to the music database, and also a music sound source (digital) is deposited on the same date. Then, a music code for that new music, for example 081AMDM029988, is provided. Then, the recording company M puts the new music "LOVE YOU" of SEIKO MATSUDA on air in the special channel for the music delivering program "NEW MUSIC" of the J SKY B by bringing the promotional video tape of the new music "LOVE YOU" on which the music code 081AMDM029988 and the music sound source (digital) are provided into the special channel for the music delivering "NEW MUSIC", and transmits the music code 081AMDM029988 and the music

sound source (digital) with the data broadcasting band at the same time.

It is assumed that, on a monitor screen of the PC/TV which is connected to the telephone line, the channel "NEW MUSIC" is turned on, and just the new music "LOVE YOU" of SEIKO MATSUDA is on air.

Fig. 33 shows a monitor screen of the PC/TV at the home 2100. Herein, it is assumed that in the main broadcasting (in the above case, it is the channel "NEW MUSIC" of J SKY B) a scene of the new music "LOVE YOU" of a singer A (in the above case, it is SEIKO MATSUDA) is running on the air.

#### 4-1. Acquisition

The entry displays "ACQUISITION" and "APPLICATION" are shown on the monitor screen of the PC/TV. Herein, assuming that the entry display "ACQUISITION" is blinking in order to indicate a possibility of a direct receiving. Then, by clicking or touching this blinking entry display "ACQUISITION", the music code 081AMDM029988 and the music sound source (digital) corresponding to the music "LOVE YOU" are stored on the hard disc of the PC/TV.

Similarly, the customer (the member) selects the new music "HOW TO BE A GIRL" of NAMIE AMURO during the same main broadcasting (the channel "NEW MUSIC" of J SKY B), and then the music code and the music sound source (digital) corresponding to this music is stored into the hard disc of the PC/TV. By doing so, it is assumed that, by selecting a few music selections during the same main broadcasting, the music codes for five music selections are stored on the hard disc of the PC/TV when the channel "NEW MUSIC" has been completed. Accordingly, in this example, "THE GROUP A OF MUSIC CODES" and "THE MUSIC SOUND SOURCE ALPHA" composed of five music selections are produced.

#### 4-2. Application

The process moves to the application operation, as shown in Fig. 34, when the acquisition step of the above has been completed.

By clicking (or touching) the entry display "APPLICATION" on the monitor screen of the PC/TV, the entry displays "MUSIC", "SHOPPING", "TICKET" are displayed on the monitor screen. Item "MUSIC" is clicked in this embodiment.

By clicking the item "MUSIC", in this embodiment, the "THE GROUP A OF MUSIC CODES" composed of the music codes of several music selections (e.g., five) as well as the "CUSTOMER CODE E" are produced as well. Further, at the same time, a browser within the hard disc of the PC/TV is started-up automatically, and then, after having displayed the words "ACQUISITION CONFIRMATION/THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:", the musical compositions selected in the above mentioned manner are displayed on the screen.

In this example, the selected musical compositions are displayed on the monitor screen as:

- |    |                    |                    |
|----|--------------------|--------------------|
| 1. | LOVE YOU           | SEIKO MATSUDA      |
| 2. | HOW TO BE A GIRL   | NAMIE AMURO        |
| 3. | FOR THE MOMENT     | EVERY LITTLE THING |
| 4. | CANDLE IN THE WIND | ELTON JOHN         |
| 5. | KOREGA WATASHI-NO  |                    |
|    | IKIRUMICHI         | PUFFY              |

and the selection items "SORT", "DELETE", "ADD" and "OK" are displayed on the monitor screen at the same time.

#### 4-2.1. Sorting of Musical Compositions

In the following, the sorting procedures of the orders for the selected musical compositions will be described.

By touching the item "SORT" on the monitor screen, as shown below, on the monitor screen, brackets [ ] are displayed on the right side of each of the musical compositions, respectively:

- |    |                    |                    |     |
|----|--------------------|--------------------|-----|
| 1. | LOVE YOU           | SEIKO MATSUDA      | [ ] |
| 2. | HOW TO BE A GIRL   | NAMIE AMURO        | [ ] |
| 3. | FOR THE MOMENT     | EVERY LITTLE THING | [ ] |
| 4. | CANDLE IN THE WIND | ELTON JOHN         | [ ] |
| 5. | KOREGA WATASHI-NO  | PUFFY              | [ ] |

IKIRUMICHI

In this example, because the first and the third musical compositions are to be sorted, the order of the musical compositions are changed to the order of 3. 2. 1. 4. 5. by entering the numbers 3, 2, 1, 4, 5 into the brackets [ ] from the top to the bottom in order. Of course, it could be constituted such that the order of the musical compositions can be sorted by using other commonly known methods such as one utilizing a cursor. On the monitor screen, the item "OK" is displayed at the same time, and by touching "OK" when the desired sorting has been completed, the monitor screen returns to the display of the "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:", and the sort changed musical compositions, such as shown in below, are displayed:

- |    |                    |                    |
|----|--------------------|--------------------|
| 3. | FOR THE MOMENT     | EVERY LITTLE THING |
| 2. | HOW TO BE A GIRL   | NAMIE AMURO        |
| 1. | LOVE YOU           | SEIKO MATSUDA      |
| 4. | CANDLE IN THE WIND | ELTON JOHN         |
| 5. | KOREGA WATASHI-NO  |                    |

IKIRUMICHI

PUFFY



Then, by touching the item "OK" on the screen, the display of "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:" is so displayed as to be renumbered such as;

- |    |                    |                    |
|----|--------------------|--------------------|
| 1. | FOR THE MOMENT     | EVERY LITTLE THING |
| 2. | HOW TO BE A GIRL   | NAMIE AMURO        |
| 3. | LOVE YOU           | SEIKO MATSUDA      |
| 4. | CANDLE IN THE WIND | ELTON JOHN         |
| 5. | KOREGA WATASHI-NO  |                    |
|    | IKIRUMICHI         | PUFFY              |

#### 4-2.2. Deletion of Musical Compositions

Deletion of selected musical compositions can be implemented by touching the item "DELETE" on the monitor screen. By touching the item "DELETE", the character display "PLEASE TOUCH THE MUSICAL COMPOSITION(S) TO BE DELETED" is made, and further the list of the selected musical compositions:

- |    |                    |                    |
|----|--------------------|--------------------|
| 1. | FOR THE MOMENT     | EVERY LITTLE THING |
| 2. | HOW TO BE A GIRL   | NAMIE AMURO        |
| 3. | LOVE YOU           | SEIKO MATSUDA      |
| 4. | CANDLE IN THE WIND | ELTON JOHN         |
| 5. | KOREGA WATASHI-NO  |                    |
|    | IKIRUMICHI         | PUFFY              |

is displayed on the monitor screen, as well as the selection item "OK" is also displayed at the same time. Herein, when deleting the musical composition "3. LOVE YOU SEIKO MATSUDA" in the musical composition list, the part of the musical composition "3. LOVE YOU SEIKO MATSUDA" is removed from the list by touching the corresponding musical composition display portion on the monitor screen, and only that portion is displayed on the new page in the screen of the monitor with the

selection item "OK" as:

WILL BE DELETED

3. LOVE YOU SEIKO MATSUDA

Herein, by touching the item "OK", the monitor screen displays again as shown below by renumbering the musical compositions except the deleted musical composition:

- |    |                    |                    |
|----|--------------------|--------------------|
| 1. | FOR THE MOMENT     | EVERY LITTLE THING |
| 2. | HOW TO BE A GIRL   | NAMIE AMURO        |
| 3. | CANDLE IN THE WIND | ELTON JOHN         |
| 4. | KOREGA WATASHI-NO  |                    |
|    | IKIRUMICHI         | PUFFY              |

#### 4-2.3. Addition of Musical Compositions

When newly adding a musical composition, the monitor screen displays the words "THE MUSICAL COMPOSITION WILL BE ADDED" by touching the selection item "ADD", and returns to the screen of "The Musical Composition Selection Step" as described above. Then, as described above, a new musical composition can be added by operating a necessary procedure while watching the monitor screen.

"THE GROUP A OF THE MUSIC CODES" corresponding to the edited musical compositions are created by touching the item "END BUTTON" on the screen after having implemented the necessary operations in the above mentioned musical composition editing step. Also, as described below, the monitor screen will shift to the next step by touching the item "END BUTTON".

#### 4-3. Design Step

In this step, the jacket design selection and the album title entry of the MD are implemented. Since this step is the same as the one in the first embodiment, the same description will be repeated below.

#### 4-3.1. Jacket Design Selection

With the completion of the musical composition editing step as described in the above step 3, in this example, the nine kinds of jacket design are displayed on one screen (i.e., one page) of the monitor, as shown in Figs. 5 and 18, along with the character display of "PLEASE SELECT THE FAVORITE JACKET". Jacket designs on other pages of the monitor screen can be displayed on the monitor screen in such a manner that the jacket designs displayed on the previous page and the next page can be displayed on the monitor screen by touching the entry displays of "PREVIOUS PAGE" and "NEXT PAGE" on the monitor screen, respectively. Of course, the number of kinds of the jacket designs incorporated in one screen (i.e., one page) may be set arbitrarily. Once the jacket design has been selected by touching the monitor screen, and then the "JACKET DESIGN CODE B" corresponding to the selected jacket design is created by touching the entry display "OK".

#### 4-3.2. Album Title Entry

After the jacket design selection is completed, the character display of "PLEASE ENTER THE ALBUM TITLE" as well as the items "KEYBOARD ENTRY", "TOUCHSENSOR ENTRY" are displayed on the monitor screen, as shown in Figs. 6 and 19. The customer enters the album title on which he/she has decided, through the keyboard or the touchsensor, after having touched either one of the items "KEYBOARD ENTRY" or "TOUCHSENSOR ENTRY". The monitor screen sequentially displays the characters of the title of the album to be entered such as "THE ALBUM TITLE IS "LOVE FOR SALE". IS IT OK?" The items "CHANGE" and "OK" are displayed simultaneously at the same time when either one of the items "KEYBOARD ENTRY" or "TOUCHSENSOR ENTRY" is touched.

The customer implements an entry again with the procedures described above,

by touching the item "CHANGE", if he/she desires to change the entered album title, while watching the monitor screen. Further, if the entered album title is all right as it is, then the "ALBUM TITLE CHARACTER DATA C" corresponding to the album title being displayed is created by touching the item "OK".

#### 4-4. Final Verification Step

After the above mentioned design step is completed, the verification items such as shown in Fig. 7 (refer to the first embodiment) are displayed on the monitor screen, respectively. That is, the contents of the respective items "ALBUM TITLE", "JACKET" and "SELECTED MUSIC" are displayed again for final verification. By touching "OK" on the monitor screen after this final verification is complete, an indication of the cost for the MD which is intended to be produced, for example, as "YOUR COST IS 2,000 YEN", is displayed on the monitor screen.

#### 4-5. Payment Step

Following the above mentioned final verification step, the items "CREDIT CARD", "PREPAID CARD", and "BANK WITHDRAWAL" are displayed on the monitor screen, as shown in Fig. 35, along with the character display of "WHAT IS YOUR PAYMENT METHOD?". When the customer has selected the payment method by touching any one of the items on the monitor screen, the character display "PLEASE INSERT THE CARD" is implemented, and the customer will then insert the card corresponding to the selected payment method into the card reader. When the card read by the card reader is confirmed, the "CARD DATA D" will then be produced.

#### 4-6. Transmission Step

After the above mentioned payment step is completed, as shown in Fig. 36, the "MUSIC CODE GROUP A", "CARD DATA D" and "CUSTOMER CODE E", which have been produced as described above, are transmitted to the host-computer 2202 which is

provided in the backchannel company 2200 through the communication system 2108, the telephone line 2400 and the communication system 2201, as shown in Fig. 23.

#### 4-6.1. Accounting Approval

The host-computer 2202 retrieves the customer database 2208 and the accounting approval database 2209 in the company side database 2210, based on the information of "CARD DATA D" and "CUSTOMER CODE E", and the necessary information is sent from these database 2208 and 2209 to the predetermined financial institution such as a credit company and the like, and then the accounting approval of the customer is carried out.

#### 4-6.2. Copyright Process

The host-computer 2202 retrieves the musical composition list database 2203 and the copyright database 2206 in the music database 2207, based on the information of "THE GROUP A OF THE MUSIC CODES". The copyright process is carried out by sending the necessary information from the copyright database 2206 of the music database 2207 to the JASRAC, and the original disc process is carried out by sending the necessary information from the musical composition list database 2203 of the music database 2207 to the recording company and the like.

#### 4-7. Cipher Approval

As shown in Fig. 37, after having confirmed the receipt of "THE GROUP A OF THE MUSIC CODES", "THE CARD DATA D" and "THE CUSTOMER CODE E" in the host-computer 2202 of the backchannel company 220, "THE APPROVAL CODE BETA" is transmitted to the PC/TV of the home 2100, attached to "THE CUSTOMER CODE E".

#### 4-8. Defrost

As shown in Fig. 38, if "THE GROUP ALPHA OF THE MUSIC SOUND SOURCES" being stored within the hard disc of the PC/TV in the home 2100 and "THE APPROVAL CODE

BETA" being sent from the host-computer 2202 in the backchannel company 2200 match, then it is possible to record the desired musical compositions into the MD (only once, because the watermark will then be entered).

#### 4-9. MD Disc Production Work

After the above mentioned steps are completed, the production step of the MD is begun. In this embodiment, the MD disc production work, i.e., the recording, is implemented in the home 2100. The group alpha of the music sound sources which has been defrosted in the above step are high-speed recorded into the MD by the MD writer 2106.

#### 4-10. Jacket Production Work

Further, in the home 2100, based on the "GROUP A OF THE MUSIC CODES", "JACKET DESIGN CODE B" and "ALBUM TITLE CHARACTER DATA C", the jacket production work (i.e., printing/thermal transfer) is implemented by the printer 2107. Herein, at first, based on the "GROUP A OF THE MUSIC CODES", the musical composition list database 2103 in the home side database 2105 is retrieved, and the attribute of each music is selected from the musical composition list database 2103 and the index database 2105, and then that information is printed on the predetermined locations of the jacket. Next, based on the "ALBUM TITLE CHARACTER DATA C", the title being input is printed on the title location of the jacket. Then, based on the "JACKET DESIGN CODE B", the selected jacket design is thermally transferred to the front cover of the jacket.

All of the above embodiments are described when the system for purchasing a personal recording media, the method of purchasing a personal recording media, and the media recorded with a personal recording media purchasing program are applied to musical compositions.

However, the present invention is not limited to musical compositions, but it could be applied to, for example, digital compositions in which video and/or sound are used as the information source, such as movies and TV advertisements. In these cases, as the personal recording media, the MD for the musical compositions could be replaced with a video cassette tape, a DVD (Digital Versatile Disc) or the like. Further, the present invention could also be applied to a software game in which images of the graphics and/or sound are used as the information source. In these cases, as the personal recording media, the MD for the musical compositions could be replaced with floppy disks and the like.

According to the present invention, the customer could produce and purchase a personal recording media in which the customer's desired information are recorded only, by using the system, the method, as well as the media of the present invention.

Fig. 39 is a schematic diagram showing the fifth embodiment of the system for purchasing a personal recording media (as before, it is referred to as "a purchasing system") according to the present invention.

Before describing the structure of Fig. 39, the features of the fifth embodiment will be described below. The substantial differences in the fifth embodiment from any one of the aforementioned embodiments are such that it utilizes an Integrated Circuit (IC) card or so called Smart Card constituted of a central processing unit (CPU) and a memory or memories (e.g., EPROM and the like) and a click radio into which the IC card is inserted in order to store musical information (music codes) corresponding to musical compositions in a music program or music programs being broadcast from the broadcasting station into the memory (or the memories) of the IC card by pressing an acquisition button

installed in the click radio while the customer is listening to the music program on air, and it is adapted such that the customer can apply and purchase a MD constituted of the customer's favorite music (including the music of which the customer was listening on the music program (or programs)) by carrying the IC card of which the musical information (music codes) has been stored into the memory (or memories) thereof to the KIOSK such as a convenience store and the like.

The fifth embodiment is as follows:

- (1) A service directed to only the specific members who possess or utilize the click radio and the IC card;
- (2) Only the musical composition list (music codes) will be sent from the broadcasting station using the data broadcasting;
- (3) The desired music will be clicked when a favorite music is on air while listening to the music programs with the radio, such as "The J-WAVE SELECTION", and the like;
- (4) Accessing to the host-computer from the convenience store using the IC card when the information corresponding to several numbers of the desired music are accumulated into the IC card;
- (5) The compilation MD is delivered to the home;
- (6) The copyright/accounting approval processes are implemented; and
- (7) In order to utilize the system of the present embodiment, the member (customer) should meet the following prerequisite;
  - a) The member (customer) should possess an IC card which is issued by registering a membership;
  - b) The member (customer) should possess an click radio which is adapted to



insert/remove the IC card and has an Input/Output (I/O) function such that it can store the musical information (the music codes) corresponding to the musical compositions in a music program (or the music programs) broadcast from the broadcasting station(s) into the memory (or the memories) of the IC card by pressing the acquisition button installed in the click radio while the customer is listening to the music program on air.

As shown in Fig. 39, the main parts of the purchasing system in this embodiment are constituted of the IC card 5000, the click radio 5100, the store 5200, the backchannel company 5300, and the broadcasting station 5400.

The IC card 5000 is constituted of the central processing unit (CPU) and the memory (e.g., EPROM) (not shown), and wherein the information regarding the membership registration number (accessing number) by the membership registration (or it may be a unique password for each member, preferably) is stored in the memory of the IC card 5000.

The click radio 5100 is constituted of a data broadcasting receiver 5101, a data broadcasting decoder 5102 connected to the data broadcasting receiver 5101, and a controller 5103 connected to both of the data broadcasting receiver 5101 and the data broadcasting decoder 5102.

The data broadcasting receiver 5101 is constituted of a tuner for enabling to select a variety of the broadcasting stations (not shown), and an antenna for receiving the FM/AM broadcasting and the data broadcasting which are being broadcast from the broadcasting stations selected by the tuner. Herein, it is assumed that both the FM/AM broadcasting and the data broadcasting are transmitted by using the digital signals, but they might be analog signals.

The data broadcasting decoder 5102 is connected to the data broadcasting

receiver 5101, and reproduces the analog music signals (hereinafter, it is referred to as "the music composition signals" or just "the music signals") by decoding the digital signal of the music broadcasting program received by the data broadcasting receiver 5101 and by digital-to-analog converting the decoded digital signals of the music broadcasting program(s) so that the members are enable to listen to the music through an earphone or a speaker (not shown).

The controller 5103 is connected to both of the data broadcasting receiver 5101 and the data broadcasting decoder 5102, and controls the both of the data broadcasting receiver 5101 and the data broadcasting decoder 5102 so as to store the digital codes corresponding to the music signals included in the signals of the data broadcasting received by the data broadcasting receiver 5101 in the memory of the IC card 5000.

The store 5200 is, for example a KIOSK, and includes a MD production application accepting system 5201 (as before, it is referred to as the "AAS" hereinafter) which is composed of a monitor, an IC card-reader, and a database retrieval/application terminal (not shown), a controller 5202 connected to the AAS 5201 for controlling the information of the music codes read from the IC card 5000 by the IC card-reader, and a communication system 5203 connected to the controller 5202.

The backchannel company 5300 includes a communication system 5301 which is connected to the communication system 5203 of the store 5200 via a telephone line or the Internet, a server-client system (hereinafter, it is referred to as the "host-computer") 5302 which is connected to the communication system 5301, a music database 5307 which is connected to the host-computer 5302 and composed of a musical composition list database 5303, a musical composition data database

5304, an index database 5305 as well as a copyright database 5306, a MD writer 5308 connected to the music database 5307, a printer 5309 connected to the music database 5307, and a company side database 5312 connected to the host-computer 5302 and composed of a customer database 5310 as well as an accounting approval database 5311.

The broadcasting station 5400 includes a communication system 5401 connected to the communication system 5301 in the backchannel company 5300 through the satellite wave and the like, a broadcasting data database 5402 connected to the communication system 5401, a broadcasting data sending server 5403 connected to the broadcasting data database 5402, and a data broadcasting encoder 5404 connected to the data broadcasting receive 5102 of the click radio 5100 through the broadcasting data sending server 5403 and the satellite wave.

The system shown in Fig. 39 is provided with the copyright database 5306 which stores the information regarding the copyright that are substantially related to the music of each country all over the world. Although the information regarding the relations of right for the copyright relating to the music is specifically stored in this copyright database 5306, it may be adapted to store the information of copyright relating to the movies, etc (mainly the information regarding the relations of right).

The host computer 5302 includes a requested musical composition evaluation unit 5314 provided with a function for registering the information of musical composition into the musical composition list database 5303 and the musical composition data database 5304, and is connected to the Input/Output (I/O) device 5313 through the communication system 5301. By entering the information of musical composition from the I/O device 5313, the songwriters,

the composers, and the arrangers, all of which are having the respective copyrights of the musical composition, can easily register their works (the information of musical compositions) into the musical composition list database 5303 and the musical composition data database 5304 through the communication system 5301 and the requested musical composition evaluation unit 5314.

Further, the host computer 5302 includes the applicable copyright related information determining unit 5318 provided with a function for retrieving and discriminating the copyright relating to the musical compositions registered into the musical composition list database 5303 and the musical composition data database 5304, based on the musical composition to be used.

Moreover, the host computer 5302 comprises the musical composition used time counting unit 5316 having a function for counting the number of times the musical composition being used.

The host computer 5302 includes the accounting and royalty determining unit 5319 provided with a function for determining the royalty distribution ratios based on the relations of right of the applicable copyright determined by the applicable copyright related information determining unit 5318, and the information stored in the accounting approval database 5311.

The host computer 5302 is provided with a function for collecting a predetermined accounting approval from a user of the musical composition and for returning the respective predetermined royalties to the agents such as the music publisher(s) and the recording companies as well as each of the copyright holders relating to the musical composition(s) to be used, based on the counting results from the musical composition used time counting unit 5316 and the royalty distribution rates determined by the royalty determining unit 5319. This

function can be easily implemented by utilizing the IC card.

Further, the accounting approval and royalty determining unit 5319 of the host computer 5302 is also provided with a function for changing the accounting approval information based on the information regarding the to the usage purpose of the registered musical composition(s).

The musical composition purpose of use evaluation unit 5315 is provided with a function for deciding the usage purpose of the musical composition and for storing the evaluated result(s) during a predetermined period of time (until it becomes unnecessary).

The customer recognition unit 5317 of the host computer 5302 has a function for recognizing the customer information inputted from the store 5200, the broadcasting station 5400, or the I/O device 5313 with reference to the customer database 5310, and for storing the new customer information into the customer database 5310 as required.

The I/O device 5313 can be installed in the store 5200, the broadcasting station 5400, and the like, respectively. By configuring as described above, the user such as the broadcasting station can easily access the musical compositions desirable to use, and also the songwriters, composers, and arrangers can easily register their songs, music scores and the like.

In the following, with reference to Figs. 40 to 47, an operation of the fifth embodiment will be described in details.

#### 5-1. Acquisition Step by Using IC Card

As shown in Fig. 40, it is assumed that the customer is listening to a music program of a FM broadcasting, e.g., "J-WAVE SELECTION", which is broadcast from the broadcasting station 5400. The broadcasting station 5400 broadcasts

a musical composition, for example the "Love You" of Seiko Matsuda, and also simultaneously broadcasts the music code 081AMD029988 corresponding to that musical composition in a data broadcasting band. Then, the customer inserts the IC card 5000 into the click radio 5100 and clicks the acquisition button (not shown) because the customer's favorite music "Love You" of Seiko Matsuda is just on air while listening to the music broadcasting program "J-WAVE SELECTION". By clicking the acquisition button, the music code 081AMD029988 corresponding to the musical composition "Love You" of Seiko Matsuda is stored into the memory of the IC card 5000.

Similarly, the above described procedures are repeated for acquiring the different musical compositions. The member selects the musical composition such as "Can You Celebrate" by Namie Amuro, from the same music broadcasting program and/or the different music broadcasting program(s) being broadcast from any stations, and then stores the music code corresponding to this musical composition into the memory of the IC card 5000.

As shown in the flow diagram of Fig. 41, a member acquires several musical compositions from a variety of the music programs (step S1), stores appropriate numbers of music codes, for example the music codes of 5 different musical compositions, into the memory of the IC card (step S2), and completes an accumulation of the musical composition data to the IC card 5000 (a download of the music codes) (step S3).

When the above steps are completed, the customer brings the IC card 5000 to the store 5200 and then applies for the compilation MD production.

#### 5-2. Membership Recognition Step

As shown in Fig. 42, at the store 5200, a switch of the purchasing system

is turned on by touching an item "START" on a screen of a touchsensor type monitor (hereinafter, it is referred to as the "monitor") in the AAS 5201. A word "WELCOME" is displayed on the monitor screen, and then words "PLEASE INSERT A IC CARD" is displayed on the screen. Herein, as shown in a flowchart of Fig. 43, at the store 5200, at first, the membership recognition process is implemented (step S11). That is, as shown in Fig. 42, if the customer is a registered member of the purchasing system, the customer inserts the IC card into the IC card reader (not shown) of the AAS 5201. After the IC card reader has read the IC card, the words "PLEASE ENTER YOUR PERSONAL IDENTIFICATION NUMBER" is displayed on the monitor. Based on the display thereof, the member enters a personal identification number (hereinafter, it is referred to as the "PIN") which is a unique for each member. The entry of the PIN can be implemented by touching the numbers and/or the alphabet characters displayed on the monitor screen. The information of the entered PIN and the information of the member registration number of the IC card, which has been read in advance by the IC card reader are transmitted from the communication system 5203 to the host-computer 5302 via a telephone line, a leased line or the Internet through the communication system 5301 of the backchannel company 5300.

In the backchannel company 5300, as shown in the flowchart of Fig. 45, the host-computer 5302 receives the signals including the information of the PIN and the member registration number (step S21), the host-computer 5302 searches the customer managing database 5310 of the company side database 5312 based on the received information of the PIN and the member registration number (step S22), and makes a matching whether or not the customer is a valid member (step S23), and then transmits the information concerning the result of that

matching from the communication system 5301 via the telephone line to the AAS 5201 through the communication system 5203, the controller 5202 of the store 5200 (step S24). Further, the host-computer 5302 produces a customer code E when the customer is a valid member.

The AAS 5201 in the store 5200 displays the words "OK" on the monitor screen's display when the customer is a valid member based on the signal including the received information concerning the result of the matching, and on the other hand, when the customer is an invalid member, then the AAS 5201 displays the words "INVALID" on the monitor screen's display (step S12 in Fig. 43).

In the case that the wrong PIN is entered during the above mentioned operation, it could be constituted such that the PIN can be re-entered by displaying the words "INVALID" on the screen, followed by displaying the words "PLEASE ENTER YOUR PERSONAL IDENTIFICATION NUMBER AGAIN WITH GREAT CARE" on the screen. In this case, as similar to the first embodiment, from a view point of a security, it could be constituted such that the limitation would be imposed on the number of times of which the PIN can be re-entered. Then, if the matching could not be made within the predefined number of times for the re-entry, the purchasing system is automatically turned off.

### 5-3. Acquisition Musical Composition Display Step

When the words "OK" is displayed on the monitor screen, the monitor displays a list of the musical compositions based on the music data (music codes) being stored in the memory of the IC card 5000 (step S13 in Fig. 43).

That is, "the group A of music codes" constituted of a plurality of music codes for the musical compositions (five musical compositions in this



embodiment) as well as "the customer's code E" are generated at the same time when the words "OK" is displayed on the monitor screen.

Then, as shown in Fig. 44, the monitor displays on the screen the words "ACQUISITION CONFIRMATION - THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:", followed by the musical compositions which are acquired in a manner as described above. In this example, the list of musical compositions being acquired into the memory of the IC card 5000 is displayed on the monitor screen as:

- |    |                        |                    |
|----|------------------------|--------------------|
| 1. | LOVE YOU               | SEIKO MATSUDA      |
| 2. | CAN YOU CELEBRAT       | NAMIE AMURO        |
| 3. | FACE THE CHANGE        | EVERY LITTLE THING |
| 4. | SHIAWASE NA KETSUMATSU | EIICH OHTAKI       |
| 5. | PROMISE                | YOSHIMI HIROSE     |

and the selection items of the "SORT", "DELETE", "ADD" and "OK" are displayed on the monitor screen at the same time.

#### 5-4. Musical Composition Editing Step

##### 5-4.1. Sorting of The Musical Compositions

In the following, with reference to Fig. 44, the sorting procedures of the orders for the selected musical compositions will be described.

By touching the item "SORT" on the monitor screen, as shown below, on the monitor screen, each of the brackets is displayed at the right end of each of the musical compositions, respectively:

- |    |                        |                    |     |
|----|------------------------|--------------------|-----|
| 1. | LOVE YOU               | SEIKO MATSUDA      | [ ] |
| 2. | CAN YOU CELEBRATE?     | NAMIE AMURO        | [ ] |
| 3. | FACE THE CHANGE        | EVERY LITTLE THING | [ ] |
| 4. | SHIAWASE NA KETSUMATSU | EIICH OHTAKI       | [ ] |

## 5. PROMISE

YOSHIMI HIROSE

[ ]

In this example, because the first and the third musical compositions are to be sorted, the order of the musical compositions are changed to the order of 3. 2. 1. 4. 5. by entering the numbers 3, 2, 1, 4, 5 into the blank squares from the top to the bottom in order. Of course, it could be constituted such that the order of the musical compositions can be sorted by using other commonly known methods such as the one which utilizes a cursor.

On the monitor screen, the item "OK" is displayed at the same time, and by touching this item "OK" when the desired sorting has been completed, the monitor screen returns to the display of the "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:", and the sorted musical compositions, such as shown in below, are displayed:

3.	FACE THE CHANGE	EVERY LITTLE THING
1.	LOVE YOU	SEIKO MATSUDA
2.	CAN YOU CELEBRATE?	NAMIE AMURO
4.	SHIAWASE NA KETSUMATSU	EIICH OHTAKI
5.	PROMISE	YOSHIMI HIROSE

Then, by touching the item "OK" on the screen, the display of "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:" is so displayed as to be renumbered such as;

1.	FACE THE CHANGE	EVERY LITTLE THING
2.	LOVE YOU	SEIKO MATSUDA

- |    |                        |                |
|----|------------------------|----------------|
| 3. | CAN YOU CELEBRATE?     | NAMIE AMURO    |
| 4. | SHIAWASE NA KETSUMATSU | EIICH OHTAKI   |
| 5. | PROMISE                | YOSHIMI HIROSE |

#### 5-4.2. Musical Composition Test - Confirmation Step

In prior to producing the MD based on the musical compositions being listed along with the display of "THE MUSICAL COMPOSITIONS YOU HAVE SELECTED ARE:", for confirming whether or not these musical compositions are indeed the desired ones by the customer, it is necessary to test a piece of each of the musical compositions from "1. FACE THE CHANGE EVERY LITTLE THING" to "5.

PROMISE YOSHIMI HIROSE".

When the customer turns on the musical composition test device (not shown) installed in the AAS 5201 in the store 5200 and then puts on a head phone, the customer can listen a piece of lyric and/or melody for each of the musical compositions listed on the display through the headphone, and the customer also can confirm it visually by looking at an indicator on the display screen which indicates the portion of the musical composition being played through the headphone with an emphasized tone. This operation can be easily implemented by synchronizing the signal of the musical composition with the signal displaying the list of the musical compositions being displayed on the monitor.

Then, based on the result of this confirmation step of the musical composition test, the following steps "DELETE" and/or "ADD" can be implemented if so desired.

#### 5-4.3. Deletion of The Musical Compositions

A deletion of the selected musical compositions can be implemented by

touching the item "DELETE" on the monitor screen. By touching the item "DELETE", the character display of "PLEASE TOUCH THE MUSICAL COMPOSITION(S) TO BE DELETED" is made, and further the list of the selected musical compositions:

- |    |                        |                    |
|----|------------------------|--------------------|
| 1. | FACE THE CHANGE        | EVERY LITTLE THING |
| 2. | LOVE YOU               | SEIKO MATSUDA      |
| 3. | CAN YOU CELEBRATE?     | NAMIE AMURO        |
| 4. | SHIAWASE NA KETSUMATSU | EIICH OHTAKI       |
| 5. | PROMISE                | YOSHIMI HIROSE     |

is displayed on the monitor screen, as well as the selection item "OK" is also displayed at the same time.

Herein, when deleting the "2. LOVE YOU SEIKO MATSUDA" in the musical composition list, the part of the musical composition "2. LOVE YOU SEIKO MATSUDA" is removed from the list by touching the corresponding musical composition display portion on the monitor screen, and only that portion is displayed on the new page in the screen of the monitor with the selection item "OK" as:

WILL BE DELETED

2. LOVE YOU SEIKO MATSUDA

Herein, by touching the item "OK", the monitor screen displays again as shown below by renumbering the musical compositions except the deleted musical composition:

- |    |                 |                    |
|----|-----------------|--------------------|
| 1. | FACE THE CHANGE | EVERY LITTLE THING |
|----|-----------------|--------------------|

- |    |                        |                |
|----|------------------------|----------------|
| 2. | CAN YOU CELEBRATE?     | NAMIE AMURO    |
| 3. | SHIAWASE NA KETSUMATSU | EIICH OHTAKI   |
| 4. | PROMISE                | YOSHIMI HIROSE |

#### 5-4.4. Addition of The Musical Compositions

When newly adding a musical composition, the monitor screen displays the words "THE MUSICAL COMPOSITION WILL BE ADDED" by touching the selection item "ADD", and returns to the screen of "The Musical Composition Selection Step" as described above. Then, as described above, a new musical composition can be added by operating a necessary procedure while watching the monitor screen.

"THE GROUP A OF THE MUSIC CODES" corresponding to the edited musical compositions are created by touching the item "END BUTTON" on the screen after having implemented the necessary operations in the above mentioned musical composition editing step. Also, as described below, the monitor screen will shift to the next step by touching the item "END BUTTON".

#### 5-5. Design Step

In this step, the jacket design selection and the album title entry of the MD are mainly implemented. Since this step is the same as the one described in the first embodiment, the same description will be repeated as follows.

##### 5-5.1. Jacket Design Selection

With a completion of the musical composition editing step as described in the above step, on the monitor screen, as shown in Fig. 43, along with the character display of "PLEASE SELECT THE FAVORITE JACKET", in this example, the nine kinds of jacket design are displayed on one screen (i.e., one page), and the jacket designs on another pages can be displayed on the monitor screen in

such a manner that the jacket designs displayed on the previous page, the next page can be displayed on the monitor screen by touching the entry displays of "PREVIOUS PAGE", "NEXT PAGE" on the monitor screen, respectively. Of course, the number of kinds of the jacket designs incorporated in one screen (i.e., one page) may be set arbitrarily.

In this example, the designs placed on the bottom of the central column shown on the left side in Fig. 46 is selected by touching the monitor screen, and then the "JACKET DESIGN CODE B" corresponding to the selected jacket design is created by touching the entry display "OK".

#### 5-5.2. Album Title Entry

After having completed the jacket design selection, the character display of "PLEASE ENTER THE ALBUM TITLE" as well as the items of "KEYBOARD ENTRY", "TOUCHSENSOR ENTRY" are displayed on the monitor screen, as shown in Fig. 47. The customer enters the album title of which he/she has evaluated, through the keyboard or the touchsensor, after having touched either one of the items "KEYBOARD ENTRY" or "TOUCHSENSOR ENTRY". The monitor screen sequentially displays the characters and the like of the album to be entered such as "THE ALBUM TITLE IS "NEW PASSION". IS IT OK?", as well as the items of "CHANGE", "OK" are displayed simultaneously at the same time when either one of the items "KEYBOARD ENTRY" or "TOUCHSENSOR ENTRY" is touched.

The customer implements an entry again with the procedures described above, by touching the item "CHANGE", if he/she is desired to change the entered album title, while watching the monitor screen. Further, if the entered album title is all right as it is, then the "ALBUM TITLE CHARACTER DATA C" corresponding to the album title being displayed is created by touching the item "OK".

#### 5-6. Final Verification Step

After having completed the above mentioned design step, on the monitor screen, the verification items such as shown in Fig. 48 are displayed, respectively. That is, the contents of the respective items "ALBUM TITLE", "JACKET" and "SELECTED MUSIC" are displayed again for the final verification. By touching the item "OK" after having completed this final verification, on the monitor screen, an indication of the cost for the MD which is intended to be produced, for example, as "YOUR COST IS 2,000 YEN", is displayed on the monitor screen.

#### 5-7. Payment Step

In this embodiment, it is adapted to implement a bank withdrawal automatically with an IC card type-electronic money. As shown in Fig. 49, from the memory of the IC card 5000, the credit information is read by the IC card-reader, and the signal including the credit information is transmitted to the host-computer 5302 in the backchannel company 5300 and the confirmation data receiving process is implemented (step S31), then the credit confirmation process is implemented by retrieving the customer database 5310, the accounting approval database 5311 based on the confirmation data just received (step S32), and the confirmation result transmission process is implemented by transmitting the result thereof to the store 5200 (step S33). Then the "CARD DATA D" is produced by implementing these processes (steps S31-S33).

#### 5-8. Transmission Step

After having completed the above mentioned payment step, as shown in Figs. 50 and 51, the "MUSIC CODE GROUP A", "JACKET DESIGN CODE B", "ALBUM TITLE CHARACTER DATA C", "CARD DATA D" and "CUSTOMER CODE E", which have been produced as

described above, are transmitted to the host-computer 5302 which is provided in the backchannel company 5300 through the communication system 5203, the telephone line and the communication system 5301, as shown in Fig. 39.

#### 5-8.1. Accounting Approval

The host-computer 5302 retrieves the customer database 5310 and the accounting approval database 5311 in the company side database 5312, based on the information of "CARD DATA D" and "CUSTOMER CODE E", and the necessary information is sent from these databases to a predetermined financial institution such as a credit company and the like, and then the accounting approval of the customer is carried out (steps S41-S42 in Fig. 51).

#### 5-8.2. Copyright Process

The host-computer 5302 retrieves the musical composition list database 5303 and the copyright database 5306 in the music database 5307, based on the information of "MUSIC CODE GROUP A", and the copyright process and the original disc process are carried out by sending the necessary information from the copyright database 5306 in the music database 5307 to the JASRAC, the HARRY FOX, as well as to the recording company and the like (step S43 in Fig. 51).

#### 5-9. MD Disc Production Work

After having completed the above mentioned steps, the production step of the MD is initiated. In the present embodiment, the MD disc production work, i.e., the recording is implemented in the backchannel company 5300 (step S44 in Fig. 51).

The input information required for the MD production is the "MUSIC CODE GROUP A" as mentioned above. Based on this MUSIC CODE GROUP A, the musical composition data database 5304 in the music database 5307 is searched, and the



musical compositions corresponding to the information of the MUSIC CODE GROUP A are selected from the musical composition data database 5304, and then the selected musical compositions are high-speed recorded into the MD by the MD writer 5308.

#### 5-10. Jacket Production Work

Further, in the backchannel company 5300, based on the "MUSIC CODE GROUP A", "JACKET DESIGN CODE B" and "ALBUM TITLE CHARACTER DATA C", the jacket production work (i.e., printing/thermal transfer) is implemented by the printer 5309. Herein, at first, based on the "MUSIC CODE GROUP A", the musical composition list database 5303 in the music database 5307 is searched, and the attribute of each music is selected from the musical composition list database 5303 and the index database 5305, and then those information are printed on the predetermined locations of the jacket. Next, based on the "ALBUM TITLE CHARACTER DATA C", the title being input is printed on the title location of the jacket. Then, based on the "JACKET DESIGN CODE B", the selected jacket design is thermal transferred to a front cover of the jacket.

#### 5-11. Mailing Work

The host-computer 5302 retrieves the customer database 5310 in the company side database 5312, based on the information of the "CUSTOMER CODE E", and then prints the address label of the customer from the information such as the customer's address, and the like, and then mailing the MD after having completed a predetermined packing. As a result of this, the customer can receive the ordered MD. Fig. 52 is a summary of the processes described above in the fifth embodiment.

By using the system according to the present invention, the various kinds

of rights relating to the copyright in the music described as above can be efficiently processed as follows.

Fig. 53 shows the configurations of the main parts of the server-client system which is a part of the backchannel company which will be used for all embodiments described above. In the communication system 5301, the I/O device is connected thereto, as similar to the one shown in Fig. 39.

In the following, the configuration of the host-computer 5302 of the backchannel company 5300 will be described.

The host computer 5302 comprises (a) a requested musical composition discriminating unit 5314 for discriminating whether or not the musical composition requested by the member has already been registered in the system, by retrieving the musical composition list database 5303 and the musical data database 5304, based on the information regarding the musical compositions included in the signal transmitted from the store, (b) a musical composition usage purpose determining unit 5315, connected to the requested musical composition discriminating unit 5314, for determining a usage purpose of the requested musical composition if it were evaluated that the requested musical composition has already been registered in the system, and (c) an applicable copyright related information decision unit 5318, connected to the musical composition database (the musical composition list database 5303 and the musical composition data database 5304), the musical composition usage purpose determining unit 5315, and the database associated with the copyright (the index database 5305 and the copyright database 5306), respectively, for deciding the information associated with the copyright which is applicable to the requested musical composition by retrieving the database associated with the copyright

based on the usage purpose of the musical composition determined by the musical usage purpose determining unit 5315 and the information regarding the requested musical composition stored in the musical composition database.

The host-computer 5302 further comprises (d) a musical composition number of use counting unit 5316, connected to the communication system 5301, for counting the number of use of the requested musical composition, (e) an accounting and royalty decision unit 5319, connected to the musical number of use counting unit 5316, the applicable copyright related information decision unit 5318, and the accounting approval database 5311, for deciding the accounting and royalty regarding the requested musical composition, based on the number of use of the musical composition, the applied information associated with the copyright, and the accounting approval information.

The host-computer 5302 still further comprises (f) a customer certification unit 5317, connected to the communication system 5301 and the customer database 5310, for recognizing a membership whether or not the one who has requested the musical composition is a member, based on the information included in the signal transmitted from the store and the customer information (mainly including the information regarding the member, the information of the songwriter (author), the information of the musical composer, the information of the musical arranger, and the information of the agents such as the recording company, the publisher, the entertainment production, and the like) stored in the customer database 5310, and for sending the required membership information to the communication system 5301 by reading it out of the customer database 5310.

The I/O device 5313 is adapted to input/output the signal which includes the information that is different from the one input from the store 5200

In the present embodiment, it is assumed that the I/O device 5313 is adapted to insert/remove the IC card (the Smart Card), but the I/O device is not limited to this type.

1. Registering of the lyric by the songwriter;
2. Registering of the musical composition by the musical composer;
3. Registering of the musical arrangement by the musical arranger;
4. Registering of the requested musical composition, the usage purpose thereof by the applicant who wishes to use the musical composition (other than the applicant who desires to purchase the MD);
5. Registering of the number of use of the requested musical composition by the user of musical composition (other than the applicant who desires to purchase the MD);
6. Outputting the accounting information to the applicant of using the musical composition, who has used the musical composition;
7. Outputting the payment information of the royalty to the songwriter;
8. Outputting the payment information of the royalty to the musical composer;
9. Outputting the payment information of the royalty to the musical arranger;
10. Outputting the payment information to the respective agents; and
11. Registering the updated information to the copyright

associated information database 5305, 5306 regarding the copyright associated information, can be easily performed by using the IC card, from the I/O device 5313. It might be arranged to secure the security by utilizing the encryption technique when performing the above mentioned processes of registering.

Further, by providing the musical composition reproducing device which is utilized at a time of using the musical composition, with the card-reader having a function of reading/writing the IC card, and by arranging that the musical composition reproducing device is to be functioned only when the specific IC card (the one registered with membership) has been inserted into the card-reader, the usage time of the musical composition which was used for the broadcasting station and/or the Karaoke-bar is automatically written into the IC card by the card-reader, thereby the information of the usage time of the musical composition can be stored into the IC card. Then by inserting the IC card in which the information of the usage time of the musical composition is stored into another card-reader for use in the IC card installed in the I/O device and by reading the information of the usage time of the musical composition stored therein, an illegal usage of the musical composition can be prevented, as well as the proper accounting approval and the returning of the royalty can be performed for the musical composition that has been used.

In that case, it is only required to arrange that the data broadcasting signal to be transmitted to the broadcasting station and/or the Karaoke-bar possesses at least a portion including the information regarding the musical composition itself, another portion including the information of the music code corresponding to the musical composition, and still another portion including

the information regarding the usage time of the musical composition. Among these, for the portion including the information of the music code corresponding to the musical composition and the portion including the information regarding the usage time, the illegal act (cheating) by the user of the musical composition can be prevented from happening by incorporating the "water mark" into the data broadcasting signal by utilizing the related technology.

Herein, the respective copyrights of the music in Japan and in the United States of America will be illustrated briefly, as well as it will be described that the complex copyrights can be efficiently processed by utilizing the system of the present invention shown in Figs 39 and 53.

In Japan, there are three kinds of copyright owners for the music at large:

1. Songwriter, Musical composer, Musical arranger, and Publisher (all are the copyright owners)
2. Artist (the neighboring rights owner)
3. Record producer (the neighboring rights owner)

For illustrating the copyrights which might be possessed by the above mentioned copyrights owners, the musical composition "Akai Sweet-pea" of Seiko Matsuda will be used as an example (the description for the musical arranger thereof will be omitted for simplification).

- (1) Genre (Type): Modern Japanese Music
- (2) Title of the Musical Composition: Akai Sweet-pea
- (3) Artist: Seiko Matsuda
- (4) Songwriter: Takashi Matsumoto
- (5) Musical Composer: Karuho Kureta

- (6) Produced Date: July 1, 1982
- (7) Original disc produced place: Japan
- (8) Original disc producer: Sun Music Publisher
- (9) Record producer: Sun Music Entertainment
- (10) Representative Publishing Country: Japan
- (11) Representative Publisher: Sun Music Publisher
- (12) Copyright Administrative Organization(s):
  - a. Mechanical Rights (option)
  - b. Performing Rights (option)

In this example, it has two copyright owners, the one for the songwriting (lyric) and the other for the musical composition, and they are the songwriter Takashi Matsumoto and the music composer Karuho Kureta (known as Yumi Matsutoya, in general). The artist Seiko Matsuda is the neighboring rights owner (will be described later).

1. For the songwriter Takashi Matsumoto and the music composer Karuho Kureta, they have

A. As the Writer (Author) Personal Rights:

- (a1) Publication Rights;
- (a2) Name Display Rights;

The rights for requesting to display the names of the songwriter/musical composer when the musical composition is to be broadcast on TV.

(a3) The Sameness Maintenance Rights

The rights for requesting to not broadcast the parody of the musical composition when it is broadcast on the TV/radio.

B. As the Copy (Property) Rights:

(b1) Reproduction (Reprint) Rights;

Exclusive rights for reproducing the musical composition onto the record, tape, videotape, etc.

(b2) Performing Rights;

Exclusive rights for performing the musical composition at the concert/Karaoke, etc.

(b3) Public Transmission Rights;

Exclusive rights for broadcasting, transmitting the musical composition on the TV, radio, the cable broadcast, the internet, etc.

(b4) Lending Rights;

Exclusive rights for lending the reproduction of the musical composition to the public.

(b5) Adaptation Rights;

Exclusive rights for translating, arranging, filming the musical composition.

(b6) Utility Rights of Secondary Writing

Exclusive rights for utilizing the adapted musical composition.

(b7) Personal Recording/Filming Compensation Payment

Demanding Rights;

Rights for demanding the compensation payment regarding the personal reproduction by the digital device.

2. For the artist Seiko Matsuda (and the group of



Accompanists of the musical composition), they have the following neighboring rights:

(c1) Recording/Filming Rights;

Exclusive rights for recording/filming the performance of the artist(s).

(c2) Broadcasting/Cable Broadcasting Rights;

Exclusive rights for broadcasting/cable broadcasting the performance of the artist(s).

(c3) Lending Rights;

Exclusive rights for lending to the public the commercial record on which the performance is recorded (for one year after the release according to the regulation).

(c4) Transmission Enabling Rights;

Exclusive rights for uploading the performance of the artist(s) to the server.

(c5) Rights to Demand the Secondary Usage Payment of the Commercial Record;

Rights for demanding the secondary usage payment, when the commercial record on which the performance is recorded is to be used for the broadcast or for the cable broadcast.

(c6) Lending Remuneration Demanding Rights;

Rights for demanding the remuneration, when the commercial record on which the performance is recorded is used by the lending after having past one year since it had been released.

(c7) Personal Recording/Filming Compensation Payment

Demanding Rights;

Rights for demanding the compensation payment regarding the personal reproduction by the digital device.

3. For the record producer, i.e., the producer of a master tape (hereinafter, it is referred to as the original disc), he/she has the following neighboring rights the same as the artist(s) does:

(d1) Reproduction Rights;

Exclusive Rights for producing the record, video tape, by reproducing the original disc.

(d2) Lending Rights;

Exclusive rights for lending to the public the commercial record on which the original disc is reproduced (for one year after the release according to the regulation).

(d3) Transmission Enabling Rights;

Exclusive rights for uploading the performance (the reproduction of the original disc) of the artist(s) to the server.

(d4) Rights to Demand the Secondary Usage Payment of the Commercial Record;

Rights for demanding the secondary usage payment, when the commercial record on which the original disc is reproduced is to be used for the broadcast or for the cable broadcast.

(d5) Lending Remuneration Demanding Rights;

Rights for demanding the remuneration, when the commercial record on which the original disc is reproduced is used by the lending after having past one year since it had been

released.

(d6) Personal Recording/Filming Compensation Payment

Demanding Rights;

Rights for demanding the compensation payment regarding the personal reproduction by the digital device.

Now, returning to Figs. 39 and 53, the operation of the system of the present invention, in particular, the information flow associated with the copyright will be described.

Consider that when the customer is listening to a music program on the click radio 5100, the musical composition the "Akai Sweet-pea" of Seiko Matsuda is on air, so the customer inserts the IC card 5000 into the click radio 5100 and stores the music code 081AMDM029998 of the musical composition "Akai Sweet-pea" into the memory of the IC card 5000 by clicking the acquisition button (for the simplicity, it is assumed that only one musical composition is stored).

Then, the customer brings the IC card 5000 to the store 5200 and then applies for the compilation MD production by inserting the IC card 5000 into the IC card-reader of the "AAS" 5201.

The control unit 5202 sends the signal including the information of the music code 081AMDM029998 read by the IC card-reader to the host-computer 5302 of the backchannel company 5300 through the communication systems 5203, 5301.

In the host-computer 5302 that received the signal, at first the requested musical composition discriminating unit 5314 retrieves the musical composition databases 5303, 5304 based on the information of the music code 081AMDM029998, and then evaluates whether or not the requested musical composition has already been registered in the system. Here, it is assumed to

be evaluated as "having already been registered". Next, the musical composition usage purpose determining unit 5315 determines the usage purpose of the requested musical composition based on the information of the musical composition usage purpose included in the signal. Herein, since the information of "a personal recording to the MD" has been added when the signal was being sent from the store 5200, it is determined that the musical composition usage purpose is "a personal recording to the MD". Then, the applicable copyright related information decision unit 5318, obtains the following information,

- (3) Artist: Seiko Matsuda
- (4) Songwriter: Takashi Matsumoto
- (5) Musical Composer: Karuho Kureta
- (6) Produced Date: July 1, 1982
- (7) Original disc produced place: Japan
- (8) Original disc producer: Sun Music Publisher
- (9) Record producer: Sun Music Entertainment

among the above information by retrieving the musical composition databases 5303, 5304 based on the information of the musical composition usage purpose "a personal recording to the MD", and evaluates the information of

1. The rights associated with the copyright of which the songwriter Takashi Matsumoto and the music composer Karuho Kureta have, i.e.,

- (a1) Publication Rights;
- (a2) Name Display Rights;
- (a3) The Sameness Maintenance Rights;
- (b1) Reproduction (Reprint) Rights;
- (b2) Performing Rights;

- (b3) Public Transmission Rights;
- (b4) Lending Rights;
- (b5) Adaptation Rights;
- (b6) Utility Rights of Secondary Writing;
- (b7) Personal Recording/Filming Compensation Payment  
Demanding Rights;

2. The rights associated with the neighboring rights of which the artist Seiko Matsuda has , i.e.,

- (c1) Recording/Filming Rights;
- (c2) Broadcasting/Cable Broadcasting Rights;
- (c3) Lending Rights;
- (c4) Transmission Enabling Rights;
- (c5) Rights to Demand the Secondary Usage Payment of the  
Commercial Record;
- (c6) Lending Remuneration Demanding Rights;
- (c7) Personal Recording/Filming Compensation Payment  
Demanding Rights;

3. the rights associated with the neighboring rights of which the SONY music entertainment, i.e., the record producer has;

- (d1) Reproduction Rights;
- (d2) Lending Rights;
- (d3) Transmission Enabling Rights;
- (d4) Rights to Demand the Secondary Usage Payment of the  
Commercial Record;
- (d5) Lending Remuneration Demanding Rights;

On the other hand, in the U. S., the subject of the copyright, i.e., the production is a record, and the copyright is considered practically as described below.

1. Publisher (representing the songwriter/musical composer) has, for the records,

(f1) Performance Rights (performing rights);

(f2) Mechanical Rights (a kind of reproducing rights);

The rights for recording.

(f3) Synchronization Rights (a kind of the adaptation rights);

The rights for combining with the images in the CM, motion picture, videos.

(f4) Publication Rights (a kind of the publishing rights);

The rights for publishing the music score, etc.

2. Recording Company has, for the records,

(g1) The Rights regarding the sound recording;

(g2) Performance Rights (limited to the digital items).

Now, consider the music composition "LIVIN' ON A PRAYER" by Bon Jovi, as an example.

(1) Genre (Type): Western Music

(2) Title of the Musical Composition: LIVIN' ON A PRAYER

(3) Sub-Title: non

(4) Japanese Title: リビング・オブ・ア・プレイヤー

(5) Artist: Bon Jovi

(6) Songwriter: Bon Jovi (ASCAP)

Sambora Richard (ASCAP)

Child Desmond (ASCAP)

(7) Musical Composer: Bon Jovi (ASCAP)

Sambora Richard (ASCAP)

Child Desmond (ASCAP)

(8) Produced Date: 1986

(9) Original disc produced place: United States of America

(10) First issued place: United States of America

(11) Original disc right owner: Polygram Records, Inc.

(12) Licensee: Polygram Music Japan, Inc.

(13) Original Publisher: Bon Jovi Publishing

Aggressive Music

Desmobile Inc.

(14) First Sub-Publisher: Polygram International Publishing Inc.

EMI April Music Inc.

(15) Sub-Publisher: Polygram Music Japan, Inc.

Shinko Music Publishing Co., Ltd.

Bon Jovi as the songwriter/musical composer enters into a contract with the publisher (for example, with the Original Publisher such as he Bon Jovi Publishing, etc and with the First sub-publisher such as the Polygram International Publishing Inc., etc.

The publisher has, as described above, for the musical composition of the Bon Jovi, (f1) Performance Rights; (f2) Mechanical Rights; (f3) Synchronization Rights; and (f4) Publication Rights.

On the other hand, Bon Jovi as the artist, enters into a contact with the

recording company (for example, the Polygram, Inc.). The recording company has, (g1) The Rights regarding the sound recording; and (g2) Performance Rights (limited to the digital items).

In the U. S., generally, the performance rights are administered by the organization such as the ASCAP, BMI, SESAC and the like, and the administrative organization collects the royalty (royalties) from the TV station, the radio station, the nightclub, and the like. The synchronization rights are administered by the publisher, and the mechanical rights are administered either by the publisher themselves or by the Haley Fox Agency (hereinafter, it is referred to as the Haley Fox) and the like.

The Haley Fox is a part of the NMPA (National Music Publishers Association) and conducts the copyright administration, and represents more than 13,000 publishers. For the mechanical rights, a predetermined amount of fee is collected for each record according to the provision 115 of the U. S. Copyright Law. Accordingly, for the mechanical rights, the Haley Fox collects the predetermined amount of fee from the recording company, and handles it to the publisher, and then the publisher pays to the songwriter/music composer in accordance with the contract.

On the other hand, the synchronization rights are evaluated by the negotiation basis.

Further, the artist receives the artist royalty on the negotiation basis for one record each from the recording company.

As described above, the contents of the copyright for the music differ from each country. Accordingly, the royalties should be returned to a songwriter, a musical composer, a musical arranger, and an artist are, in principle,



dependent on the contents of rights which the respective right owners have as defined by the copyright of the respective countries.

However, in practice, large numbers of the songwriters, the musical composers, the musical arrangers, and the artists who are not associated with the specific agents such as the publishers, the recording companies, the entertainment productions, and it is arranged so that these agents act as the representative for these people and pay the royalties to the respective songwriters, musical composers, musical arrangers, artists who are the applicable right owners.

For the services conducted by the agents such as the recording companies, the publishers and the like, the specific rights are occurred as described above, and the royalties are paid to the respective agents depending on their services.

In case of the songwriters, the musical composers, the musical arrangers, and the artists who are not associated with these agents such as described above, they will independently negotiate with the users for the royalties, based on the rights they have respectively.

Herein, it will describe about the case of "recording to the MD" the musical composition of Bon Jovi, again, by using the system of the present invention shown in Figs. 39 and 53.

Consider that when the customer is listening to a music program on the click radio 5100, the musical composition "LIVIN' ON A PRAYER" of Bon Jovi is on air, so that the customer inserts the IC card 5000 into the click radio 5100 and stores the music code of the musical composition "LIVIN' ON A PRAYER" into the memory of the IC card 5000 by clicking the acquisition button installed in the click radio 5100 (for the simplicity, it is assumed that only one musical

composition is stored, similar to the previous example).

Then, the customer brings the IC card 5000 to the store 5200 and applies for the compilation MD production by inserting the IC card 5000 into the IC card-reader of the "AAS" 5201.

The control unit 5202 sends the signal including the information of the music code read by the IC card-reader to the host-computer 5302 of the backchannel company 5300 through the communication systems 5203, 5301.

In the host-computer 5302 that received the signal, at first the requested musical composition discriminating unit 5314 retrieves the musical composition databases 5303, 5304 based on the information of the music code, and then evaluates whether or not the requested musical composition has already been registered in the system. Here, it is assumed to be evaluated as "having already been registered". Next, the musical composition usage purpose determining unit 5315 determines the usage purpose of the requested musical composition based on the information of the musical composition usage purpose included in the signal. Herein, since the information of "a personal recording to the MD" has been added when the signal was being sent from the store 5200, it is determined that the musical composition usage purpose is "a personal recording to the MD". Then, the applicable copyright related information decision unit 5318, obtains the following information,

(5) Artist: Bon Jovi

(6) Songwriter: Bon Jovi (ASCAP)

Sambora Richard (ASCAP)

Child Desmond (ASCAP)

(7) Musical Composer: Bon Jovi (ASCAP)

Sambora Richard (ASCAP)

Child Desmond (ASCAP)

(8) Produced Date: 1986

(9) Original disc produced place: United States of America

(10) First issued place: United States of America

(11) Original disc right owner: Polygram Records, Inc.

(12) Licensee: Polygram Music Japan, Inc.

(13) Original Publisher: Bon Jovi Publishing

Aggressive Music

Desmobile Inc.

(14) First Sub-Publisher: Polygram International Publishing Inc.

EMI April Music Inc.

(15) Sub-Publisher: Polygram Music Japan, Inc.

Shinko Music Publishing Co., Ltd.

among the above information by retrieving the musical composition databases 5303, 5304 based on the information of the musical composition usage purpose "a personal recording to the MD", and evaluates the information of

1. the rights associated with the copyright of which the publisher has,  
i.e.,

(f1) Performance Rights (performing rights);

(f2) Mechanical Rights (a kind of reproducing rights);

(f3) Synchronization Rights (a kind of the adaptation rights);

(f4) Publication Rights (a kind of the publishing rights);

and

2. the rights associated with the copyright of which the recording

company has, i.e.,

(g1) The Rights regarding the sound recording;

(g2) Performance Rights (limited to the digital items),

by retrieving the copyright associated databases 5305, 5306. Herein, it is assumed that the usage registration by the broadcasting business has already been made through the I/O device 5313 prior to broadcasting the music program on the radio.

Among the copyright associated information described above, the appropriate rights are evaluated by the applicable copyright related information decision unit 5318, based on the information of the "a personal recording to the MD".

Next, the musical composition usage time counting unit 5316 counts the number of times for which the musical composition is used. The accounting and royalty decision unit 5319 retrieves the accounting approval database 5311 based on the information resulted from the counting by the musical composition usage time counting unit 5316 and the information of the rights associated with the copyright evaluated by the applicable copyright related information decision unit 5318, calculates the accounting and royalty, and sends the calculated result to the store 5200 through the communication system 5301, as well as outputs the information regarding the royalty to the respective copyright owners, and the respective agents, herein they are the publishers and the recording companies of the United States of America since it is related to the U. S. Copyright, through the I/O device 5313, by utilizing the Internet and the like.

In case of the musical composition of Bon Jovi, since the recording company and the publisher which administer the musical composition of Bon Jovi

reside in Japan, it is only necessary to send the calculated results of the royalties to these agents in Japan.

On the other hand, in case of no agent and recording company residing in Japan for the musical composition that is desirable to obtain a usage permit, the usage permit of the musical composition can be easily implemented and the payment procedure of the royalties to the copyright owners for the use of the musical composition can be properly made, by using the system of the present invention, under the condition that the musical composition has already been registered in advance. Furthermore, in case of the musical composition having not been registered yet, the usage permit of the musical composition can be obtained by requesting the copyright owner(s) to register the musical composition from the I/O device according to the present invention.

Fig. 54 is a schematic diagram showing a sixth embodiment of the purchasing system according to the present invention.

The sixth embodiment is similar to the fifth embodiment except that the MD is produced in the KIOSK rather than in the backchannel company. Accordingly, the prerequisites of the sixth embodiment are identical to the ones of the fifth embodiment, and thus we do not describe them here.

As shown in Fig. 54, the main parts of the purchasing system in this embodiment are composed of an IC card 6000, a click radio 6100, a store 6200, a backchannel company 6300, and a broadcasting station 6400.

The IC (Integrated Circuit) card 6000 is constituted of a central processing unit (CPU) and a memory (e.g., EPROM) (not shown), and the information regarding the membership registration number by registering the membership (or the identification number) is to be stored into the memory of the IC card 6000.

The click radio 6100 is constituted of a data broadcasting receiver 6101, a data broadcasting decoder 6102 connected to the data broadcasting receiver 6101, and a controller 6103 connected to both of the data broadcasting receiver 6101 and the data broadcasting decoder 6102. The data broadcasting receiver 6101 includes a FM/AM broadcasting receiving function for receiving a plurality of music broadcasting programs being broadcast from the various broadcasting stations. The data broadcasting decoder 6102 reproduces analog music signals by digital-to-analog converting digital signals of the music broadcasting program(s) as well as reproduces the music codes by decoding the data broadcasting signals corresponding to the digital signals of the music broadcasting program(s) both of which are received by the data broadcasting receiver 6101. The controller controls both of the data broadcasting receiver 6101 and the data broadcasting decoder 6102 in order to store the reproduced music codes corresponding to the musical compositions in the music program(s) being broadcast from the broadcasting station 6400 into the memory of the IC card 6000 by pressing the acquisition button installed in the click radio 6100 while the customer is listening to the reproduced music program(s) on air.

As shown in Fig. 54, the store 6200 is the KIOSK, and includes a MD production application accepting system 6201 (as before, it is referred to as the "AAS" hereinafter) which is composed of a monitor, an IC card-reader, and a database retrieval/application terminal (not shown), a store side database 6205 connected to the AAS 6201 and composed of a musical composition list database 6202, a musical composition data database 6203 and an index database 6204, a MD writer 6206 connected to the store side database 6205, a printer 6207 connected to the store side database 6205, a controller 6208 connected to the

AAS 6201, a communication system 6209 connected to the controller 6208, a data broadcasting receiving system 6210, and a data broadcasting decoder 110 connected to both the data broadcasting receiving system 6210 and the store side database 6205.

The backchannel company 6300 includes a communication system 6301 connected to the communication system 6209 of the store 6200 via a telephone line, a server-client system (hereinafter, it is referred to as the "host-computer") 6302 connected to the communication system 6301, a music database 6307 connected to the host-computer 6302 and composed of a musical composition list database 6303, a musical composition data database 6304, an index database 6305 as well as a copy right database 6306, and a company side database 6310 connected to the host-computer 6302 and composed of a customer database 6308 as well as an accounting approval database 6309.

The broadcasting station 6400 includes a communication system 6401 connected to the communication system 6301 in the backchannel company 6300 through the satellite wave and the like, a broadcasting data database 6402 connected to the communication system 6401, a broadcasting data sending server 6403 connected to the broadcasting data database 6402, and a data broadcasting encoder 6404 connected to the data broadcasting receive 6102 of the click radio 6100 through the broadcasting data sending server 6403 and the satellite wave.

In the following, referring to Figs. 49 to 53, an operation of the purchasing system shown in Fig. 54 will be described in detail.

However, among the following steps, the detailed descriptions of the ones which are the same as the steps described in the fifth are omitted;

#### 6-1. IC Card Acquisition Step

- 6-2. Membership Recognition Step
- 6-3. Acquisition Musical Composition Display Step
- 6-4. Musical Composition Editing Step
  - 6-4.1. Sorting of the Musical Compositions
  - 6-4.2. Musical Composition Testing Confirmation Step
  - 6-4.3. Deletion of the Musical Compositions
  - 6-4.4. Addition of the Musical Compositions
  - 6-4.5. Jacket Design Selection
  - 6-4.6. Album Title Entry
- 6-5. Final Verification Step
- 6-6. Payment Step
  
- 6-7. MD Production Step
  - 6-7.1. MD Disc Production Work

After having completed the above-mentioned 1 to 6 steps, it is now entered into the production step of the MD. In the present embodiment, the MD disc production work, i.e., the recording is implemented in the KIOSK, that is, in the store 6200 such as the convenience store or the gas station and the like.

The input information required for the MD production is the "MUSIC CODE GROUP A" as mentioned above. Based on this MUSIC CODE GROUP A, the musical composition data database 6202 in the store side database 6205 is searched, and the musical compositions corresponding to the information of the MUSIC CODE GROUP A are selected from the musical composition data database 6203, and then the selected musical compositions are high-speed recorded into the MD by the MD writer 6206.



## 6-7.2. Jacket Production Work

Further, in the store 6200, based on the "MUSIC CODE GROUP A", "JACKET DESIGN CODE B" and "ALBUM TITLE CHARACTER DATA C", the printer 6207 implements the jacket production work (i.e., printing/thermal transfer). Herein, at first, based on the "MUSIC CODE GROUP A", the musical composition list database 6202 in the store side database 6205 is searched, and the attribute of each music is selected from the musical composition list database 6202 and the index database 6204, and then those information are printed on the predetermined locations of the jacket. Next, based on the "ALBUM TITLE CHARACTER DATA C", the title being input is printed on the title location of the jacket. Then, based on the "JACKET DESIGN CODE B", the selected jacket design is thermal transferred to a front cover of the jacket.

When the above mentioned MD disc production work and the above mentioned jacket production work are completed, the customer could obtain the desired MD at the store 6200 such as the KIOSK and the like.

## 6-8. Transmission Step

After having completed the above mentioned payment step, the "MUSIC CODE GROUP A", "CARD DATA D" and "CUSTOMER CODE E", which have been produced as described above, are transmitted to the host-computer 6302 which is provided in the backchannel company 6300 through the communication system 6209, the telephone line and the communication system 6301, as shown in Fig. 54.

The following steps are also omitted since they are similar to the ones in the fifth embodiment;

## 6-9. Backchannel Company's Work Step

### 6-9.1. Accounting Approval

## 6-9.2. Copyright Process

### 6-10. Musical Composition Database Update Step

It is very important for the customer to obtain the information of new musical compositions (the musical composition list, the musical composition data, the index data, and the like). This information is transmitted from the broadcasting station 6400 to the store 6200 using the satellite wave, and the like.

The backchannel company 6300 reads the new versions of the musical composition list, the musical composition data and the index information from the musical composition list database 6303, the musical composition data database 6304 and the index database 6305 of the music database 6307, respectively using the host-computer 6302, and then transmits these information from the communication system 6301 to the communication system 6401 in the broadcasting station 6400 using the satellite wave (instead, it is possible to use the telephone line or the private line).

In the broadcasting station 6400, the new versions of the musical composition list, the musical composition data, and the index information are stored in the broadcasting data database 6402. The broadcasting data sending server 6403 sends the new versions of the musical composition list, the musical composition data, the index information stored in the broadcasting data database 6402 to the data broadcasting encoder 6404. The data broadcasting encoder 6404 converts these information to the transmission signals by encoding them, and then transmits the transmission signals to the data broadcasting receiving system 6210 in the store 6200 using the satellite wave and the like.

The data broadcasting receiving system 6210 in the store 6200, which has received the encoded signals, sends these signals to the data broadcasting decoder 6211. Then, the data broadcasting decoder 6211 decodes the received signals, reads the new versions of the musical composition list, the musical composition data and the index information, and these new versions of the musical composition list, the musical composition data and the index information are stored in the musical composition list database 6202, the musical composition data database 6203 and the index database 6204 in the store side database 6205, respectively.

Accordingly, the purchasing system according to the present embodiment is so configured that the newest music information is always stored in the store 6200, and thus it could respond to the needs for the customers.

As described above, the usage permit of the musical compositions of domestic as well as of all over the world can be easily implemented, as well as the payment procedure of the royalties to the copyright owners for the usage of the musical compositions can be easily and accurately made in the global scale by using the system of the present invention.

In the above embodiments, the IC card is applied for the portable type click radio, but the type of the radio is not limited to the portable type click radio. The type of radio could be the automobile (car) radio of the IC card applicable type or the stationary radio at home or at office of the IC card applicable type and the like.

The system according to the present invention can be adapted for a use with the TV set of the IC card applicable type and/or the personal computer (the types of desktop, notebook-size, etc.) of the IC card applicable type as well.

The system of the present invention can be adapted for the musical program that is to be broadcast through air (i.e., wireless radio waves) or through the cables from the TV and/or radio broadcasting stations.

Fig. 55 shows another embodiment of the music database according to the present invention, configured as similar to the one shown in Fig. 11, with some additional features which will be described in detail below.

Since the basic components are similar to the ones shown in Fig. 11, the substantial parts shown in Fig. 55 are almost the same, but the contents thereof are different as can be seen in the following descriptions.

The music database of the present embodiment includes five categories of (1) the music attribution, (2) the original disc right, (3) the copyright, (4) the music score, and (5) the sound source, as shown in Fig. 55.

In the following, each of the categories will be described in detail, but these details are not shown in Fig. 55 because of the volume of the database is quite large. Thus the only the substantial parts of the contents are shown in Fig. 55, but each substantial part includes the layers described below, with the same numerals shown in the figure. In other words, the music database in this embodiment should be configured with the following layers.

(1) Music Attribution

(1)-1 music code:

only code allocated for a specific musical composition.

For example, to the musical composition of a new version, a new and entirely different code is allocated for the same musical composition with a new version. Furthermore, the musical composition remixed-down with the same musical material is considered to be a different musical composition and thus

a new code is allocated therefor.

(1)-2 name of musical composition

domestic name / international name

(1)-3 minutes for musical composition

(1)-4 artist data

a) main artist

a-1) main artist code;

code representative of the main artist(s) who sings/plays the musical composition.

a-2) main artist name;

name of the main artist(s) who sings/plays the musical composition.

a-3) code representative of the company to which the main artist(s) belong;

a company code when the artist(s) is not independently active but belongs to some company(s).

a-4) name representative of the company to which the main artist(s) belong;

a company name when the artist(s) is not independently active but belongs to some company(s).

a-5) code representative of the organization to which the main artist(s) belongs or to which the company associated with the artist(s) belongs;

code of the organization to which the artist(s) belongs as an individual artist, or to which the company belongs when the

artist(s) is associated with the company but not as an individual artist.

a-6) name representative of the organization to which the main artist(s) belongs or to which the company associated with the artist(s) belongs;

name of the organization to which the artist(s) belongs as an individual.

b) secondary artist

b-1) secondary artist code;

code representative of the secondary artist(s) who sings/plays the musical composition.

b-2) secondary artist name;

name of the secondary artist(s) who sings/plays the musical composition.

b-3) code representative of the company to which the secondary artist(s) belong;

a company code when the artist(s) is not independently active but belongs to some company(s).

b-4) name representative of the company to which the secondary artist(s) belong;

a company name when the artist(s) is not independently active but belongs to some company(s).

b-5) code representative of the organization to which the secondary artist(s) belongs or to which the company associated with the artist(s) belongs;

code of the organization to which the artist(s) belongs as an individual artist, or to which the company belongs when the artist(s) is associated with the company but not as an individual artist.

b-6) name representative of the organization to which the secondary artist(s) belongs or to which the company associated with the artist(s) belongs;  
name of the organization to which the artist(s) belongs as an individual.

c) engineer staff

c-1) engineer staff code;  
code representative of the mixer engineer staff who produces the present musical composition.

c-2) engineer staff name;  
name of the engineer staff who produces the musical composition.

c-3) code representative of the company to which the engineer staff belong;

a company code when the engineer staff is not independently active but belongs to some company(s).

c-4) name representative of the company to which the engineer staff belong;

a company name when the engineer staff is not independently active but belongs to some company(s).

c-5) code representative of the organization to which the..

engineer staff belongs or to which the company associated with the engineer staff belongs;

code of the organization to which the engineer staff belongs as an individual staff, or to which the company belongs when the engineer staff is associated with the company but not as an individual engineer staff.

- c-6) name representative of the organization to which the engineer staff belongs or to which the company associated with the engineer staff belongs;
- name of the organization to which the engineer staff belongs as an individual.

(2) Information Concerning Original Disc Right

- (2)-1 representative original disc owner code:

code of an owner of the musical composition.

- (2)-2 representative original disc owner name:

name of an owner of the musical composition

- (2)-3 representative original disc owner-company code:

code of the company which owns the musical composition, or the company which enters into a contract with the owner.

- (2)-4 representative original disc owner company name:

name of the company which owns the musical composition, or the company which enters into a contract with the owner.

- (2)-5 code representative of the organization to which the representative original disc owner belongs or to which the company associated with the representative original disc owner belongs;



code of the organization to which the representative original disc owner belongs as an individual, or to which the company belongs when the representative original disc owner is associated with the company but not as an individual.

- (2)-6 name representative of the organization to which the representative original disc owner belongs or to which the company associated with the representative original disc owner belongs; name of the organization to which the representative original disc owner belongs as an individual, or to which the company belongs when the representative original disc owner is associated with the company but not as an individual.

- (2)-7 licensee code;  
code representative of the company of which the representative original disc owner enters into a contact as a company which carries on a business for the original disc in a territory other than the ones in which the representative original disc owner has a right to exercise the original disc right.

- (2)-8 licensee name;  
name representative of the company of which the representative original disc owner enters into a contact as a company which carries on a business for the original disc in a territory other than the ones in which the representative original disc owner has a right to exercise the original disc right.

- (2)-9 co-owner code of the original disc:  
code representative of an co-owner who co-owns the musical

composition with the representative original disc owner or with the representative publisher.

(2)-10 co-owner name of the original disc:

name representative of a co-owner who co-owns the musical composition with the representative original disc owner or with the representative publisher.

(2)-11 co-owner company code of the original disc:

code representative of the company which co-owns the musical composition, or the company which enters into a contract with the co-owner.

(2)-12 co-owner company name of the original disc:

name representative of the company which co-owns the musical composition, or the company which enters into a contract with the co-owner.

(2)-13 organization code to which the original disc co-owner belongs or to which the company associated with the original disc co-owner belongs: code representative of the organization to which the original disc co-owner belongs as an individual, or to which the company belongs when the original disc co-owner is associated with the company but not as an individual.

(2)-14 organization name to which the original disc co-owner belongs or to which the company associated with the original disc co-owner belongs: name representative of the organization to which the original disc co-owner belongs as an individual, or to which the company belongs when the original disc co-owner is associated with the company but not as an individual.

## (3) Information Concerning Copyright Songwriter

## (3)-1 main songwriter code:

code representative of the one(s) who mainly conducts the songwriting of the musical composition.

## (3)-2 main songwriter name:

name representative of the one(s) who mainly conducts the songwriting of the musical composition.

## (3)-3 representative original publisher code:

code representative of the original publisher which enters into a contract with the songwriter.

## (3)-4 representative original publisher name:

name representative of the original publisher which enters into a contract with the songwriter.

## (3)-5 a first organization code;

code representative of the administrative organization to which the main songwriter belongs.

## (3)-6 a first organization name;

name representative of the administrative organization to which the main songwriter belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

## (3)-7 a second organization code;

code representative of the administrative organization to which the representative original publisher belongs when the main songwriter enters into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-8 a second organization name;

name representative of the administrative organization to which the representative original publisher belongs when the main songwriter enters into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-9 code of the original music co-publisher:

code representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-10 name of the original co-publisher:

name representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-11 organization code :

code representative of the administrative organization to which the original co-publisher belongs.

(3)-12 organization name:

name representative of the administrative organization to which the original co-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-13 first sub-publisher code;

code representative of the publisher of which the original publisher enters into a contact of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-14 first sub-publisher name;

name representative of the publisher of which the original publisher enters into a contact of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-15 organization code :

code representative of the administrative organization to which the first sub-publisher belongs.

(3)-16 organization name:

name representative of the administrative organization to which the first sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-17 secondary sub-publisher code;

code representative of the secondary sub-publisher of which the first publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the code representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in a territory other than the ones in

which the original publisher has a right to exercise the publishing right thereof.

(3)-18 secondary sub-publisher name;

name representative of the secondary sub-publisher of which the first publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the name representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-19 administrative organization code :

code representative of the administrative organization to which secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-20 administrative organization name:

name representative of the administrative organization to which the secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-21 co-songwriter code:

code representative of a co-songwriter who co-operates with the main songwriter in the songwriting.

## (3)-22 co-songwriter name:

name representative of a co-songwriter who co-operates with the main songwriter in the songwriting company which enters into a contract with the co-owner.

## (3)-23 representative the original publisher code:

code of the representative publisher to which the co-songwriter enters into a contract.

## (3)-24 representative the original publisher name:

name of the representative publisher to which the co-songwriter enters into a contract.

## (3)-25 first organization code :

code representative of the administrative organization to which the co-songwriter belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

## (3)-26 first organization name :

name representative of the administrative organization to which the co-songwriter belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

## (3)-27 a second organization code;

code representative of the administrative organization to which the representative original publisher belongs when the co-songwriter enters into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by

different organizations separately]

(3)-28 a second organization name;

name representative of the administrative organization to which the representative original publisher belongs when the

co-songwriter enters into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-29 code of the original music co-publisher:

code representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-30 name of the original co-publisher:

name representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-31 organization code :

code representative of the administrative organization to which the original co-publisher belongs.

(3)-32 organization name:

name representative of the administrative organization to which the original co-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-33 first sub-publisher code;

code representative of the publisher of which the original publisher



enters into a contact of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-34 first sub-publisher name;

name representative of the publisher of which the original publisher enters into a contact of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-35 organization code :

code representative of the administrative organization to which the first sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-36 organization name:

name representative of the administrative organization to which the first sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-37 secondary sub-publisher code;

code representative of the secondary sub-publisher of which the first publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the code representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher

to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-38 secondary sub-publisher name;

name representative of the secondary sub-publisher of which the first publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the name representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-39 administrative organization code :

code representative of the administrative organization to which secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-40 administrative organization name:

name representative of the administrative organization to which the secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

Musical Composer

## (3)-41 main musical composer code:

code representative of the one(s) who mainly conducts the songwriting of the musical composition.

## (3)-42 main musical composer name:

name representative of the one(s) who mainly conducts the songwriting of the musical composition.

## (3)-43 representative original publisher code:

code representative of the original publisher which enters into a contract with the musical composer.

## (3)-44 representative original publisher name:

name representative of the original publisher which enters into a contract with the musical composer.

## (3)-45 a first organization code;

code representative of the administrative organization to which the main musical composer belongs.

## (3)-46 a first organization name;

name representative of the administrative organization to which the main musical composer belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

## (3)-47 a second organization code;

code representative of the administrative organization to which the representative original publisher belongs when the main musical composer enters into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by

different organizations separately]

(3)-48 a second organization name;

name representative of the administrative organization to which the representative original publisher belongs when the main musical composer enters into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-49 code of the original music co-publisher:

code representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-50 name of the original co-publisher:

name representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-51 organization code :

code representative of the administrative organization to which the original co-publisher belongs.

(3)-52 organization name:

name representative of the administrative organization to which the original co-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-53 first sub-publisher code;

code representative of the publisher of which the original publisher

enters into a contact of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-54 first sub-publisher name;

name representative of the publisher of which the original publisher enters into a contact of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-55 organization code :

code representative of the administrative organization to which the first sub-publisher belongs.

(3)-56 organization name:

name representative of the administrative organization to which the first sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-57 secondary sub-publisher code;

code representative of the secondary sub-publisher of which the first publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the code representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right

thereof.

(3)-58 secondary sub-publisher name;

name representative of the secondary sub-publisher of which the first publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the name representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-59 administrative organization code :

code representative of the administrative organization to which secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-60 administrative organization name:

name representative of the administrative organization to which the secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-61 co-musical composer code:

code representative of a co-musical composer who co-operates with the main musical composer in the songwriting.

(3)-62 co-musical composer name:

name representative of a co-musical composer who co-operates with the main musical composer in the songwriting.

(3)-63 .representative the original publisher code:

code of the representative publisher to which the co-musical composer enters into a contract.

(3)-64 representative the original publisher name:

name of the representative publisher to which the co-musical composer enters into a contract.

(3)-65 first organization code :

code representative of the administrative organization to which the co-musical composer belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-66 first organization name :

name representative of the administrative organization to which the co-musical composer belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-67 a second organization code;

code representative of the administrative organization to which the representative original publisher belongs when the co-musical composer enters into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-68 a second organization name;

name representative of the administrative organization to which the representative original publisher belongs when the co-musical composer enters into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-69 code of the original music co-publisher:

code representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-70 name of the original co-publisher:

name representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-71 organization code :

code representative of the administrative organization to which the original co-publisher belongs.

(3)-72 organization name:

name representative of the administrative organization to which the original co-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-73 first sub-publisher code;

code representative of the publisher of which the original publisher enters into a contract of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original



publisher has a right to exercise the publishing right thereof.

(3)-74 first sub-publisher name;

name representative of the publisher of which the original publisher enters into a contact of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-75 organization code :

code representative of the administrative organization to which the first sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-76 organization name:

name representative of the administrative organization to which the first sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-77 secondary sub-publisher code;

code representative of the secondary sub-publisher of which the first publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the code representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right

thereof.

(3)-78 secondary sub-publisher name;

name representative of the secondary sub-publisher of which the first publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the name representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-79 administrative organization code :

code representative of the administrative organization to which secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-80 administrative organization name:

name representative of the administrative organization to which the secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

Musical Arranger

(3)-81 main musical arranger code:

code representative of the one(s) who mainly conducts the songwriting of the musical composition.

(3)-82 main musical arranger name:

name representative of the one(s) who mainly conducts the  
songwriting of the musical composition.

(3)-83 representative original publisher code:

code representative of the original publisher which enters into a  
contract with the musical arranger.

(3)-84 representative original publisher name:

name representative of the original publisher which enters into a  
contract with the musical arranger.

(3)-85 a first organization code;

code representative of the administrative organization to which the main  
musical arranger belongs.

(3)-86 a first organization name;

name representative of the administrative organization to which the main  
musical arranger belongs

[note: the mechanical rights and performing rights might be administered by  
different organizations separately]

(3)-87 a second organization code;

code representative of the administrative organization to which the  
representative original publisher belongs when the main musical arranger  
enters into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by  
different organizations separately]

(3)-88 a second organization name;

name representative of the administrative organization to which the

representative original publisher belongs when the main

musical arranger enters into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-89 code of the original music co-publisher:

code representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-90 name of the original co-publisher:

name representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-91 organization code :

code representative of the administrative organization to which the original co-publisher belongs.

(3)-92 organization name:

name representative of the administrative organization to which the original co-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-93 first sub-publisher code;

code representative of the publisher of which the original publisher enters into a contract of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

## (3)-94 first sub-publisher name;

name representative of the publisher of which the original publisher enters into a contact of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

## (3)-95 organization code :

code representative of the administrative organization to which the first sub-publisher belongs.

## (3)-96 organization name:

name representative of the administrative organization to which the first sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

## (3)-97 secondary sub-publisher code;

code representative of the secondary sub-publisher of which the first publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the code representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

## (3)-98 secondary sub-publisher name;

name representative of the secondary sub-publisher of which the first

publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the name representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-99 administrative organization code :

code representative of the administrative organization to which secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-100 administrative organization name:

name representative of the administrative organization to which the secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-101 co-musical arranger code:

code representative of a co-musical arranger who co-operates with the main musical arranger in the songwriting.

(3)-102 co-musical arranger name:

name representative of a co-musical arranger who co-operates with the main musical arranger in the songwriting.

company which enters into a contract with the co-owner.

(3)-103 representative the original publisher code:

code of the representative publisher to which the co-musical arranger enters into a contract.

(3)-104 representative the original publisher name:

name of the representative publisher to which the co-musical arranger enters into a contract.

(3)-105 first organization code :

code representative of the administrative organization to which the co-musical arranger belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-106 first organization name :

name representative of the administrative organization to which the co-musical arranger belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-107 a second organization code;

code representative of the administrative organization to which the representative original publisher belongs when the co-musical arranger enters into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-108 a second organization name;

name representative of the administrative organization to which the representative original publisher belongs when the co-musical arranger enters

into a contract with the original publisher.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-109 code of the original music co-publisher:

code representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-110 name of the original co-publisher:

name representative of a co-publisher to whom the representative original publisher enters into a contract of co-owning the publishing right.

(3)-111 organization code :

code representative of the administrative organization to which the original co-publisher belongs.

(3)-112 organization name:

name representative of the administrative organization to which the original co-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-113 first sub-publisher code;

code representative of the publisher of which the original publisher enters into a contact of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-114 first sub-publisher name;



name representative of the publisher of which the original publisher enters into a contact of allowing the publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-115 organization code:

code representative of the administrative organization to which the first sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-116 organization name:

name representative of the administrative organization to which the first sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-117 secondary sub-publisher code;

code representative of the secondary sub-publisher of which the first publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the code representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-118 secondary sub-publisher name;

name representative of the secondary sub-publisher of which the first publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in the specific area (areas) or country (countries) if the first publisher exist. Otherwise, it represents the name representative of the secondary sub-publisher of which the original publisher enters into a contact of allowing the secondary sub-publisher to exercise the publishing right in a territory other than the ones in which the original publisher has a right to exercise the publishing right thereof.

(3)-119 administrative organization code :

code representative of the administrative organization to which secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(3)-120 administrative organization name:

name representative of the administrative organization to which the secondary sub-publisher belongs.

[note: the mechanical rights and performing rights might be administered by different organizations separately]

(4) Music Score

(4)-1 MIDI data

(4)-2 Live music score

(4)-3 Words (Lyric)

(5) Sound Source

(5)-1 Digital sound source

It is apparent that the above described items are not limited to the ones as shown. Further expansion will be easily made if necessary. This condition will be equally applicable for any lists described in this document, unless otherwise so specified.

Fig. 56 shows a display menu on the display monitor of the system.

The display menu, so-called "the retrieval screen", is constituted of the following items:

A: Genre of Titles

- A-1. Title of Musical Composition
- A-2. Title of Western Music
- A-3. Title of Modern Japanese Music
- A-4. Other

B: Genre of Personal Names

- B-1. Name(s) of Artist(s)
- B-2. Name(s) of Songwriter(s)
- B-3. Name(s) of Musical Composer(s)
- B-4. Name(s) of Musical Arranger(s)
- B-5. Other

C: Genre of Corporations

- C-1. Name(s) of Recording Company (Companies)
- C-2. Name(s) of Publisher(s)
- C-3. Name(s) of Entertainment Production(s)
- C-4. Other

D: Genre of Organizations

- D-1. JASRAC (Japan)

D-2. BMI (U.S.A.)

D-3. ASCAP (U.S.A.)

D-4. MCPS (U.K.)

D-5. SDRM (France)

D-6. Other

E: Date of Production

E-1. Year

E-2. Month

E-3. Day

The above items can be entered using the key board or other type of the input device such as an electronic pen by the user of the system at a time when the user accesses the system by inserting the IC card into the IC card-reader installed in the system. The user is identified by this procedure. At the same time, it may arrange to identify the equipment of which the user log-in the system in order to avoid an unauthorized use of the IC-card and/or the equipment.

By entering the applicable items on the "retrieval screen", i.e., by entering the attributes of the musical composition, the ISRC thereof is specified. Once the ISRC is specified, then the "Permission File" and the "Charging Rate & Fee File" (both of which are described below in more details) are automatically linked in accordance with the specified ISRC.

Then, the menu on the display screen changes to the "initial menu" such as shown in Figs. 57a, 57b, or 57c, depending on a type of the user as identified by the above process through the information stored in the memory of the IC card.

When the identified user is a business user, such as a Radio broadcasting station, the menu on the screen changes to the initial menu for the business

user as shown in Fig. 57a, which includes the selection items of:

1. Musical Composition Retrieval
2. Application of Broadcasting Use
3. Purchase of Musical Score
4. Application of Performance
5. Application of Synchronization
6. Application of Alteration.

When the identified user is a general user, such as a college student, the menu on the screen changes to the initial menu for the general user as shown in Fig. 57b, which includes the selection items of:

1. Musical Composition Retrieval
2. Purchase of Musical Composition
3. Purchase of Musical Score
4. Purchase of MIDI DATA.

When the identified user is a rightful claimant, such as a publisher, the menu on the screen changes to the initial menu for the rightful claimant as shown in Fig. 57c, which includes the selection items of:

1. Alteration of Permission Content
2. Alteration of Charging Rate & Fee Content
3. Alteration of Right Content
4. Application of New Writing.

Fig. 58 shows the content of the Permission File to be used for the system of the present invention.

Fig. 59 shows the content of the Charging Rate & Fee File also to be used for the system of the present invention.

In the following, the respective items of the Permission File, as well as the respective items of the Charging Rate & Fee File will be listed with the detailed explanations.

Permission File:

1. Key code: Music Code (= ISRC code)
2. Genre A: Audition

When retrieving the musical composition, or when purchasing the musical composition, it is flagged whether the audition can be implemented for a full chorus, one chorus, or specific seconds .

A1 Business Use

A1-1 full chorus

A1-2 one chorus

A1-3 45 seconds

A1-4 60 seconds

(other variations of time)

A2 Personal Use

A2-1 full chorus

A2-2 one chorus

A2-3 45 seconds

A2-4 60 seconds

(other variations of time)

3. Genre B: Purchase of Musical Composition Audition

Preparing for flag areas corresponding to a variety of services which will be generated in future.

## B1 Business Use

Distributing the Sound Source to the local FM radio broadcasting stations coupling to the Broadcasting Use of Genre F as shown below.

## B2 Personal Use

Subdivided into further segments in future (response to the desires of customers, artists, etc.)

[existing recording permit]

## B2-1 Juke box

Listening only once = no accumulation/recording can be made (distinguish it in a view point of the audition of A being free of charge).

## B2-2 CD

Applying a group of the favorite musical compositions using the Internet at home, and then the CD recorded with the favorite musical compositions is delivered to the home, or delivered to the record shop nearby.

## B2-3 MD

Applying a group of the favorite musical compositions using the Internet at home, and then the MD recorded with the favorite musical compositions is delivered to the home, or delivered to the record shop nearby.

## B2-4 CD-R

Applying a group of the favorite musical compositions using the Internet at home, and the Music Sources are downloaded, and then re-recorded/fixed on the CD at home.

B2-5 MD-R

Applying a group of the favorite musical compositions using the Internet at home, and the Music Sources are downloaded, and then re-recorded/fixed on the MD at home.

B2-6 DVD-R

Applying a group of the favorite musical compositions using the Internet at home, and the Music Sources are downloaded, and then recorded/fixed on the DVD at home.

B2-7 PC

4. Genre C: Purchase of Music Score(s)

C1 Business Use

C1-1 Purchasing it (them) as the data on the network.

C1-2 Applying on the network, and then purchasing it (them) as the music score(s) written on the paper(s)

C2 Personal Use

C2-1 Purchasing it (them) as the data on the network.

C2-2 Applying on the network, and then purchasing it



(them) as the music score(s) written on the paper(s)

5. Genre D: Purchase of MIDI DATA

It will turn to be a new business when producing the MIDI data at a time of producing the original sound source(s).

D1 Business Use

Selling to the Karaoke business

D1-1 Purchasing it (them) as the data on the network.

D2 Personal Use

D2-1 Purchasing it (them) as the data on the network.

5. Genre E: Application for Performance

E1 Business Use

Applications at a time of performance by the professional artists or musicians at the concert, the live-house, etc.

E2 Personal Use

Applications at a time of performance by the Amateur artists or musicians at the concert, the live-house, etc. No charge will be made for the performance, but only for the survey of the musical compositions to be used.

7. Genre F: Broadcasting Use of Musical Composition(s)

In principle, all musical compositions can be used for

broadcasting.

F1 Business Use

F1-1 Broadcasting Program(s) for the Radio Station(s).

F1-2 Broadcasting Program(s) for the TV Station(s).

8. Genre G: Synchronization

For use in the TV image(s), the movie image(s), and the commercial image(s) as the background music.

G1 Business Use

G1-1 Synchronization for use in the movie image(s)

G1-2 Synchronization for use in the TV image(s)

G1-3 Synchronization for use in the video-gram image(s)

G1-4 Synchronization for use in the game soft image(s)

G1-5 Synchronization for use in the CM image(s)

9. Genre H: Application for Alteration

For producing a new music by altering the existing musical composition(s) [sound source(s), musical score(s)], it is desirable to produce a cover music of the existing musical composition(s), and/or to produce an entirely different musical composition by sampling the existing sound source(s) at a time of producing the dance music and the like which are popular at the present time.

H1 Business Use

H1-1 Usage permit of the existing sound sources  
sampling

H1-2 at a time when producing the cover music of the  
existing musical composition(s) [such as the Ja-  
panese Cover version of the western music]

Charging Rate & Fee File:

ISRC

Ratio of the Original Disc : the Copyright

1. Ratio within the Original Disc

Initial Original Disc : Common Original Disc

Original Disc : Licensee

Individual : Company : Organization

Produce Royalty Rate

Main Artist Royalty Rate

Sub-main Artist Royalty Rate

2. Ratio within the Copyright

Songwriter : Composer : Arranger : Publisher

Publisher : Common Publishers

OP : FSP : SP

Individual : Company : Organization

Organization : Organization

In the following, some examples for illustrating the above mentioned  
Files will be described in detail

Here, it is assumed that the user is a business person (hereinafter it  
is just referred to as the user) who is in charge of selecting the music for

the music program to be broadcast on the radio, by using the system of the present invention. Then, the user activates the facing equipment and inserts the IC card which also functions as the ID card of the registered user. By entering the password (or this process may be omitted since the IC card contains the information of the identification number, which will function the same), the display device on the monitor equipment displays the initial screen for the business user such as shown in Fig. 57a..

At this time, the ID number and the using equipment number are constituted as a user data.  $\Rightarrow$  [User Data A]

First of all, an operation of specifying the musical composition is to be implemented. Since the information of the candidate musical compositions has been entered in advance by applicably fulfilling the respective items on the "retrieval menu" displayed on the screen of the display device such as shown in Fig. 56.

After having specified the candidate musical compositions, the menu on the screen changes to the "initial menu" for the business user such as shown in Fig. 57a, and as a default the item of

#### 1. Musical Composition Retrieval

is accentuated with a color and the retrieval of candidate musical compositions are implemented as whether or not these candidate musical compositions have already been registered in the system. Then, as the result of the retrieval, a list of the candidate musical compositions together with the indications of whether or not the respective candidate musical compositions have already been registered in the system are shown on the screen. The candidate musical compositions with the "OK" marks indicate that these candidate musical

compositions have already been registered, and thus these candidate musical compositions can proceed to the next step.  $\Rightarrow$  [Musical Composition List B]

Herein, it is assumed that the "Permission File" and the "Charging Rate & Fee File" corresponding to these candidate musical compositions have also been registered in advance when the candidate musical compositions have been registered in the system. Thus, the items in the respective files as shown in Figs. 58 and 59 have been either flagged (or non-flagged if not applicable) or fulfilled (or emptied if not applicable) in advance by the copyright owner(s) of the corresponding musical composition(s) in accordance with the preferences by the rightful claimant(s).

The user, then, selects the item(s) in the "initial menu" either by touching the item(s) on the menu or the number (s) corresponding to the respective item(s) with a touch-pen.

In the present example, it is assumed that the user selects

## 2. Application of Broadcasting Use

from the items in the "initial menu". When the user selected the item 2 by touching the item with the touch pen, the screen changes to the "broadcasting attributes entering menu". The user then enters the broadcasting date, the net station name(s), and the number of the net stations and the like on the "broadcasting attributes entering menu".  $\Rightarrow$  [Broadcasting Attribution Data C]

After having completed the above processes, the respective "Permission File" and the "Charging Rate & Fee File" for each of the candidate musical compositions are referred (for example, see Fig. 60), and the information of the permitted contents, the original disc and the copyright regarding the

candidate musical compositions are obtained as in the form of the data A, B, and C describe as above. Then, a wave-packet is constituted by these data A, B and C, and the wave-packet is transmitted to the host-computer 5302 such as the one shown in Fig. 53 in the so-called the "Music Global Access System (MGAS)" of the present invention for the evaluation of the candidate musical compositions concerning the status or the states of the original disc and the copyright, as well as the permitted contents for the items.

In the present example, the referred item in the Permission Files for the candidate musical composition is just the item of the "Broadcasting Use", and the content thereof consists of F1-1 "the broadcasting program for the radio station" and F1-2 "the broadcasting program for the TV station". Therefore, when the content of F1-1 is flagged, but the content of F1-2 is non-flagged for one of the candidate musical compositions, then that candidate musical composition is only permitted for use in the broadcasting program for the radio station. Thus, together with the information in the "Charging Rate & Fee File" for that candidate musical composition, the information of that content is transmitted to the MGAS for evaluating the copyright and the original recording right based on the updated various rights and contents in the "Permission File" and the "Charging Rate & Fee File", while the user is informed that one of the candidate musical compositions is only permitted for the radio broadcasting and thus no restriction will be applied for that candidate musical composition through the display screen.

In the following, as an example, the process for the FM radio station J-WAVE used the following musical composition:

a) Seiko Matsuda / "AKAI SWEET-PEA"

b) Bon Jovi / "LIVIN' ON A PRAYER"

in the radio music program "J-WAVE SELECTION" which was broadcast on 22:00 of March 24, 1998, will be described in detail.

There is the tracking operation for evaluating whether or not the above musical compositions were accurately broadcast on the scheduled broadcasting data along the broadcasting list. Here, the matching will be made between the group of transmitted musical compositions which are accumulated in the transmission unit of the broadcasting station and the broadcasting list in the evaluation unit (not shown). In case of the broadcasting accident, the sudden change of the broadcasting schedule, and the like, the correct data of the group of transmitted musical compositions of the LOGIN system in the broadcasting unit is re-written as the data of use in the evaluation unit.

The data of use in the evaluation unit are re-written everyday, and transmitted to the MGAS in accordance with the contract agreement between the broadcasting station and the MGAS, for example every week, or every month, and the like.

In the following, the process of publishing rights will be described with reference to the above-mentioned example.

Presently, in Japan, a payment for the broadcasting fee of the copyright between the JASRAC and the TV/Radio station(s) is conducted based on the annual blanket contract.

For instance, if the annual sales volume of the Radio station were to be 10,000, 000, 000 yen, then 2% of that amount, i.e., 200, 000, 000 yen is to be paid to the JASRAC. Thereafter, the further distribution will be conducted as described before.

Now, the process similar to the one just described will be illustrated using the MGAS of the present invention.

Assuming that the above-mentioned two musical compositions were broadcast 100 times annually, and further assuming that the total number of use for the musical compositions at the J-WAVE is to be 100, 000, then yen can be obtained for each musical composition. This 200,000 yen is then distributed to the songwriter, the broadcasting fee of  $(100/100,000) \times 200,000$  yen = 200, 000, the musical composer, the musical arranger, and the publisher in accordance with the distribution ratio indicated in the respective "Charging Rate & Fee File" corresponding to the Seiko Matsuda's musical compositions, after the commission of the JASRAC is subtracted therefrom. In case of Bon Jovi, the remaining amount of broadcasting fee after the commission of the JASRAC being subtracted is distributed to the ASCAP, the songwriter, the musical composer, the musical arranger, and the publisher in accordance with the distribution ratio indicated in the respective "Charging Rate & Fee File" corresponding to the Bon Jovi's musical composition.

Now, the process of the original disc right will be described in detail.

1. For the recording producer:

Presently, there is an agreement for the broadcasting fee of the original disc between the Recording Industry Association of Japan (RIAJ) and the National Association of Commercial Broadcasters In Japan (NACBJ) which is a parent organization of the TV/Radio stations.

1% of the annual total sales volume of the commercial broadcasting stations in Japan is being paid to the RIAJ as the use fee of the original disc.

For instance, if the annual total sales volume of all commercial



broadcasting stations were 1, 000, 000, 000, 000 yen, then the 1% thereof (= 1,000, 000, 000 yen) is to be paid to the RIAJ. Presently, the broadcasting fee of the original disc is distributed to the respective recording companies by using the system with less degraded than the sampling system. However, using the MGAS of the present invention, for example, 1% of the annual total sales volume by the J-WAVE, i.e.,  $10,000,000,000 \text{ yen} \times 1\% = 100,000,000 \text{ yen}$  is paid to the RIAJ as the broadcasting fee of the original disc. Then the similar procedures as for the publishing rights will take place with reference to the "Charging Rate & Fee File".

Assuming that the above-mentioned two musical compositions were broadcast 100 times annually, and further assuming that the total number of use for the musical compositions at the J-WAVE is to be 100, 000, then, the broadcasting fee of  $(100/100,000) \times 100,000,000 \text{ yen} = 100,000 \text{ yen}$  can be obtained for each musical composition. This 100,000 yen is then distributed to the recording company, the entertainment production, and the like in accordance with the original disc contribution ratio indicated in the respective "Charging Rate & Fee File" corresponding to the Seiko Matsuda's musical compositions, after the commission of the RIAJ is subtracted therefrom. In case of Bon Jovi, the remaining amount of broadcasting fee after the commission of the RIAJ being subtracted is distributed to the recording company outside of Japan through the licensed recording company in accordance with the ratio indicated in the respective "Charging Rate & Fee File" corresponding to the Bon Jovi's musical composition.

2. For the artist(s):

At the same time, the payment of the secondary use fee of the original

disc right is conducted by the NACBJ to the artist(s). For instance, if the annual total sales volume of all commercial broadcasting stations were 1, 000, 000, 000, 000 yen, then the 1% thereof (= 1,000, 000, 000 yen) is to be paid to the Japan Council of Performer's Organizations (JCPO). Then, from there, the payments are made to the respective organizations.

Now the flow of the payment by using the MGAS of the present invention will be described.

For example, assuming that the above-mentioned two musical compositions were broadcast 100 times annually, and further assuming that the total number of use for the musical compositions at the J-WAVE is to be 100, 000, then, the broadcasting fee of  $(100/100, 000) \times 100, 000, 000 \text{ yen} = 100, 000 \text{ yen}$  can be obtained for each musical composition. This 100, 000 yen is then distributed to the artist(s), the entertainment production with which the artist(s) is associated, and the organization(s) with the entertainment production(s) is associated and the like in accordance with the contract distribution ratio indicated in the respective "Charging Rate & Fee File" corresponding to the Seiko Matsuda's musical compositions, after the commission of the JCPO is subtracted therefrom. In case of Bon Jovi, the remaining amount of broadcasting fee after the commission of the JCPO being subtracted is distributed to the artist(s), the entertainment production with which the artist(s) is associated, and the organization(s) such as AFM, AFTRA, and the like with which the entertainment production(s) is associated and the like in accordance with the ratio indicated in the respective "Charging Rate & Fee File" corresponding to the Bon Jovi's musical composition.

The outline of the above processes is shown in Fig. 60. As can be seen

from the above explanation, the similar procedures as described above will take place for the different types of users.

Referring to Fig. 61, the above mentioned process will be described in detail.

The MGAS system of the present invention is activated by inserting the IC card into the IC card-read (step ST1). Then, a type of the user who has just activated the MGAS system is identified from the information stored in the memory of the IC card (step ST2). Next, the "retrieval" menu is displayed on the screen of the display device (step ST3), and the applicable items on the "retrieval" menu for the candidate musical composition are fulfilled (step ST4). The DB (the musical database) is retrieved in accordance with the information of the type of user which is identified as well as the items on the "retrieval" menu fulfilled (step ST5). It is evaluated whether or not the candidate musical composition has already been registered in the system prior to the activation of the MGAS system (step ST6), and the result of the evaluation is displayed on the screen to indicate whether or not the candidate musical composition has already been registered in the MGAS system and at the same time the proper "initial" menu is displayed on the screen in accordance with the information of the type of user identified as above (step ST7). If the candidate musical composition has already been registered in the MGAS system (step ST8), then the appropriate items on the "initial" menu is selected in accordance with the type of user identified as above (step ST9). When either the professional user or the general user is selected in the step ST9, then the corresponding items in the "Permission File" is retrieved based on the selected item(s) on the proper "initial" menu (step ST10), and the result of the retrieval is displayed on the

screen to indicate whether or not the selected item(s) is permissible one(s) (step ST11). When the selected item(s) is not permissible in the step ST11, then returns to the step ST9. On the other hand, when the selected item(s) is permissible, then the DB is retrieved in accordance with the information of the "Charging Rate & Fee File" (step ST12), and the applicable copyright & royalties are processed in accordance with the result of the retrieval of the DB (step ST13). Then, the result is to be confirmed whether or not it is an appropriate (step ST14), and if the result is confirmed, then the process is terminated (step ST15).

When the type of user is a rightful claimant such as the copyright owner/publisher, and the like in the step ST9, then an appropriate information for the item(s) is altered/entered in the "Permission File" and/or the "Charging Rate and Fee File" (step ST16). Then the altered/entered information is processed to update the content of the DB (step ST17), and the result of the process such as the altered/entered item is displayed on the screen (step ST18), and proceeds to the step ST 14 as described above.

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present embodiment is therefore to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by foregoing description and all changes which come within the meaning and range of equivalency of the claims are therefore intended to be embraced therein.

## CLAIMS

1. A system for granting access to selected of a library of multimedia, said system comprising:

- a) a memory for storing said library of multimedia;
- b) a data input device for entering a set of information attributes for said multimedia stored in said memory;
- c) a data retriever for retrieving information about a particular medium of said library in accordance with said entered attribute; and
- d) an output device for providing said retrieved information.

2. A system for accessing information related to a musical composition, said system comprising:

- a) a data input device operable by a user for entering information as to the class of the current user and a candidate musical composition to be accessed;
- b) a memory for storing a library of said musical compositions and a set of information items related to at least selected of said stored musical compositions;
- c) a display for displaying to the current user selected information related to said candidate musical composition;
- d) a processor coupled to said data input device and said memory for performing the following operations on said candidate musical composition related information:
  - 1) evaluating said class of the current user and said candidate musical composition and, dependent there on, displaying on said display

those information items corresponding to said entered class of the current user from the particular set of information items of said entered candidate musical composition,

2) permitting the current user to select at least one of said displayed information items for further processing, and

3) further processing said selected information items.

3. The system for assessing information as claimed in claim 2, wherein said information items stored in said memory comprises intellectual property rights and said further processing calculates the fees due in relation to said entered candidate musical composition and said entered user class.

4. The system for assessing information as claimed in claim 2, wherein said information item stored in said memory comprises permission to access information, and said further processing determines based upon said permission to access information and said user class which, if any, information pertaining to said selected candidate musical composition will be accessible to the current user.

5. A method of permitting access by a plurality of class of users to an information system to select and obtain permission to access a particular musical composition from a library musical compositions for a particular one of a plurality of uses, the information system storing information as to the identity of, the accessible rights to each musical composition in the library, license fees associated with each of the rights, and the claimants of each of

the rights, said method comprising the steps of:

- a) permitting a user to activate the information system by inputting an indication of at least the class of the current user and the identity of a candidate musical composition;
- b) identifying from said user input the class of the current user;
- c) retrieving from the information system dependent on the identified class of the current user and the candidate musical composition the availability of the musical composition in the information system and a set of potentially permissioned uses selected according to the identified class;
- d) displaying to the user an indication of whether or not the musical composition is available in the information system and, if available, said selected set of potentially permissioned uses of the available candidate musical composition;
- e) permitting the user to select a particular use from said displayed set of uses;
- f) accessing from the information system whether or not said selected use is permissioned for said identified candidate musical composition and, if said selected use is permissioned, retrieving from the information system dependent on said selected use information as to said license fee and claimant related to said selected use; and
- g) processing said license fee with respect to said selected claimant.

6. The method of permitting access as claimed in claim 5, where in, when said identified use as determined in step b) is a claimant, permitting said

claimant to alter said license fee information, and processing said altered information to update the content of the information system.

7. The method of permitting access as claimed in claim 6, wherein there is further included the steps of displaying to the current user said altered information, and permitting the claimant to confirm whether or not said altered information is appropriate and, if appropriate, terminating said processing step g).



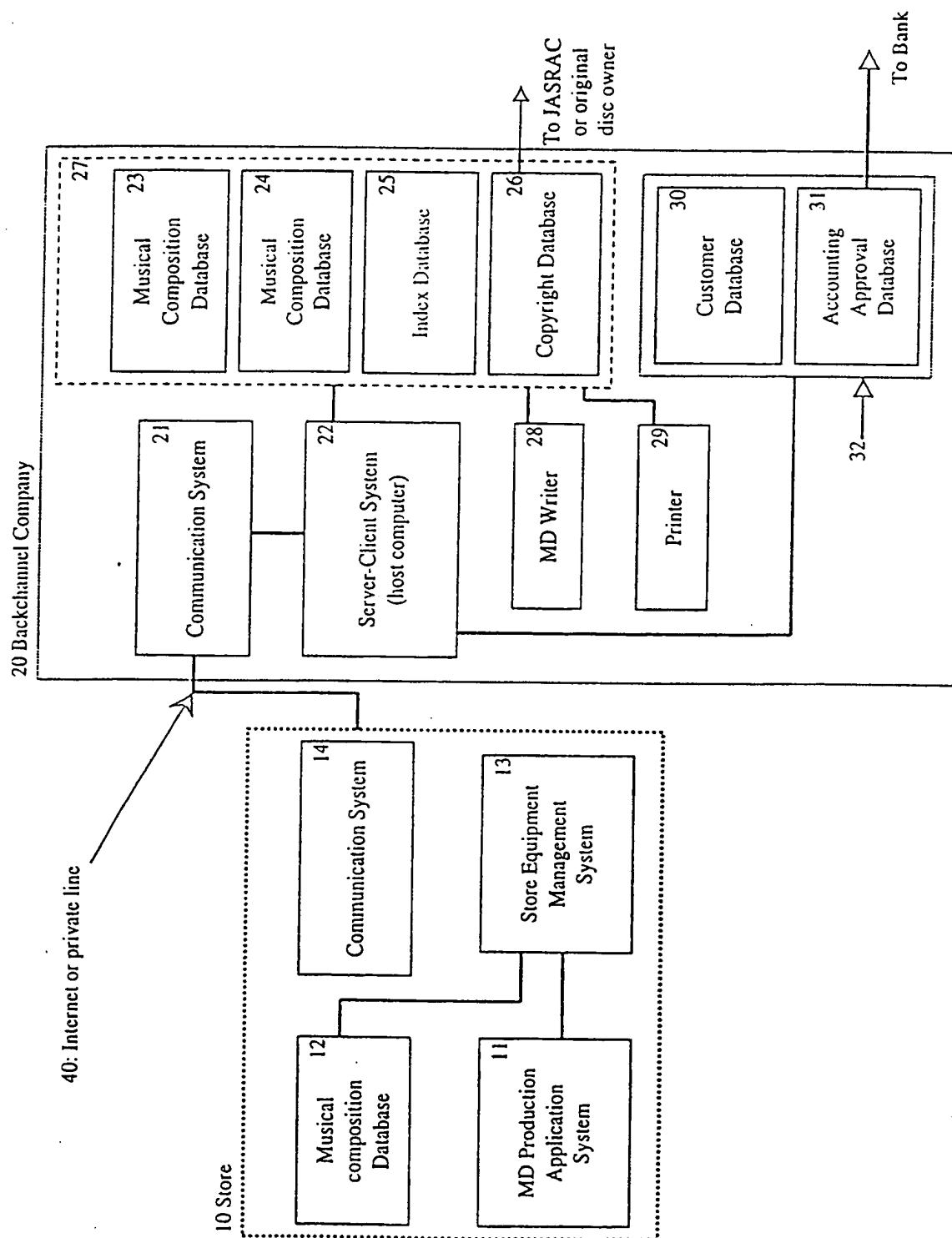


Figure 1

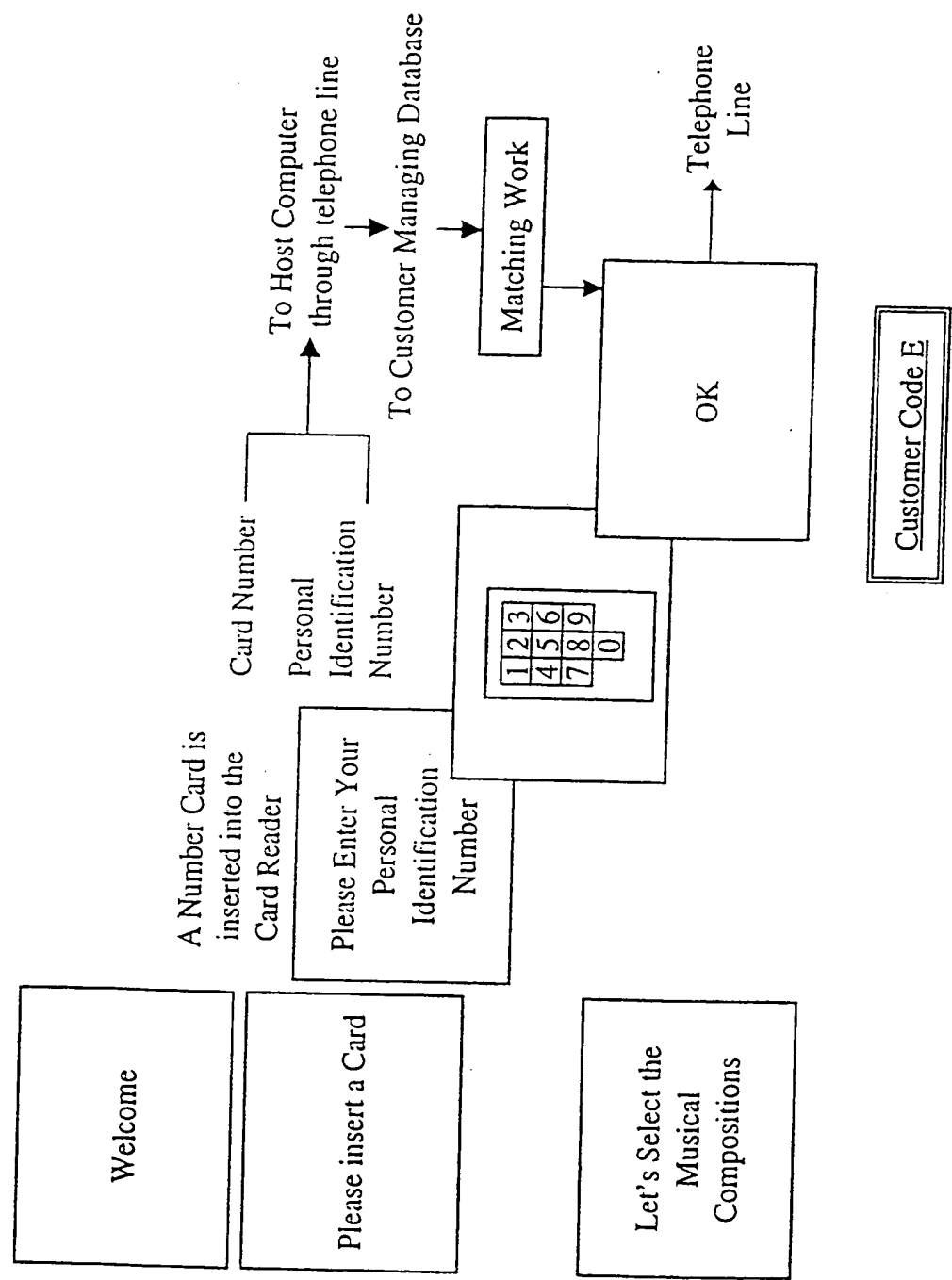


Figure 2

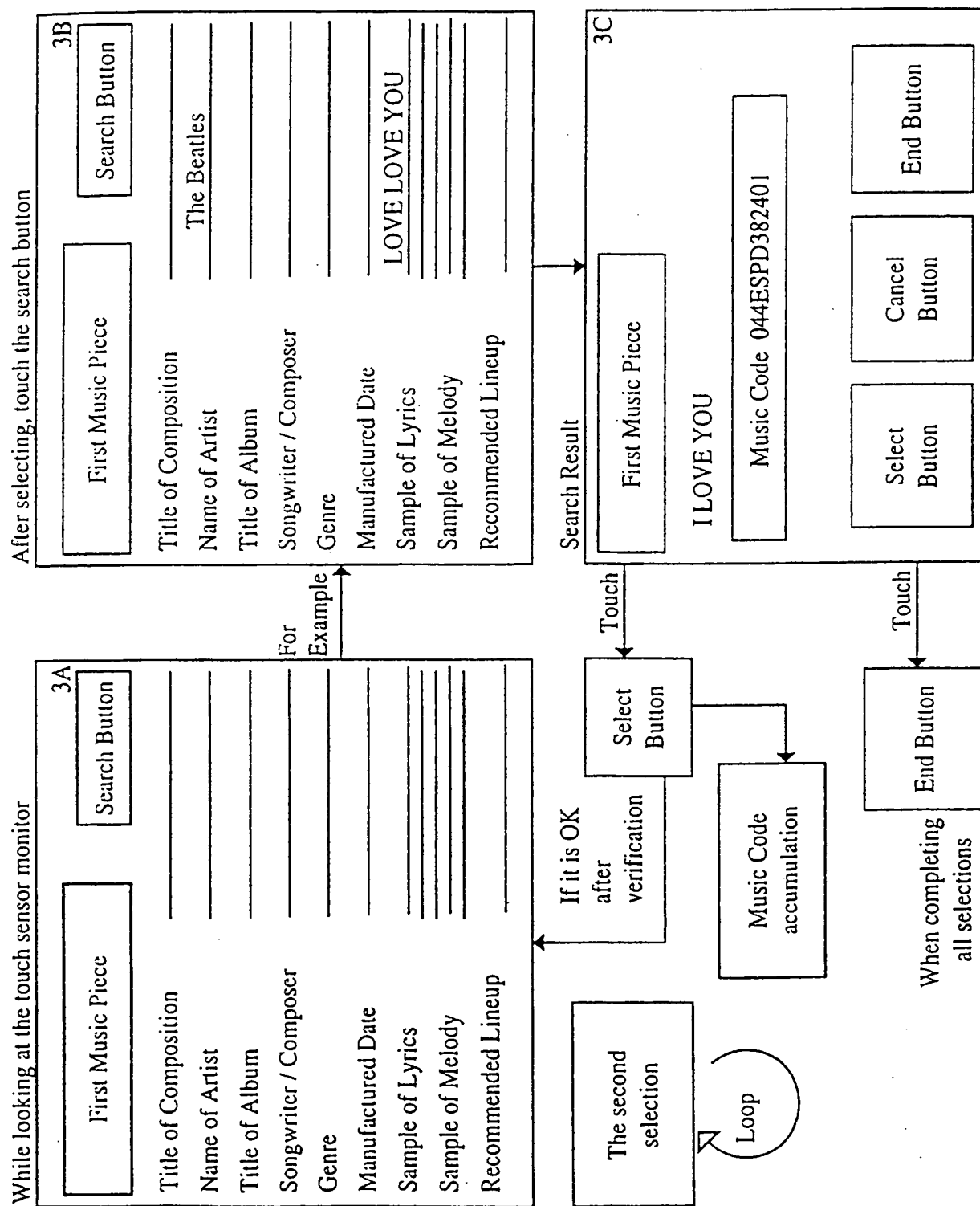


Figure 3

# MUSICAL COMPOSITION

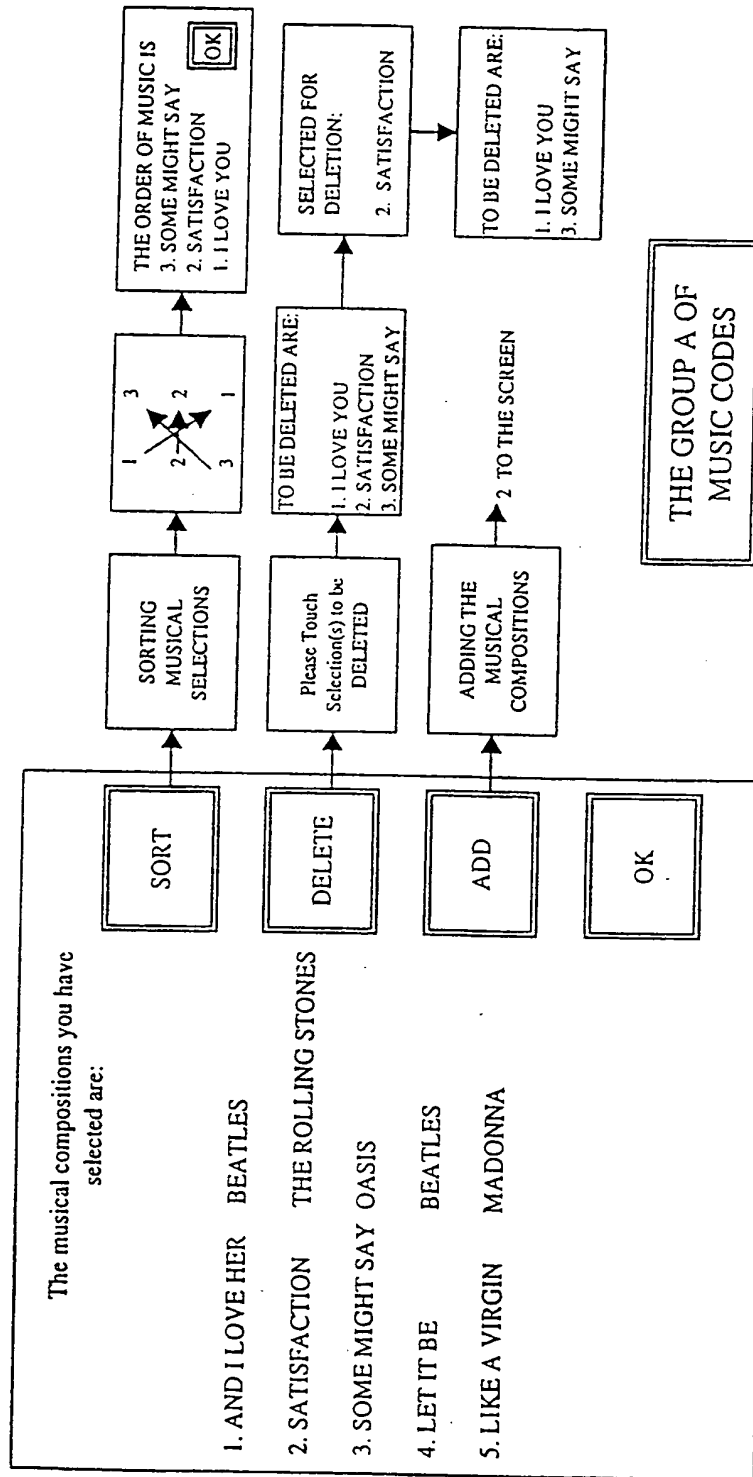








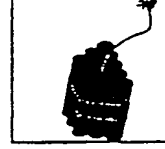


Figure 4


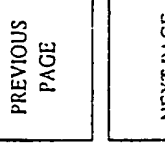
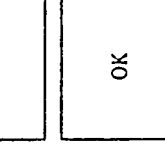
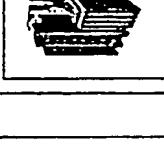
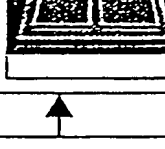
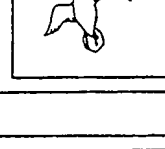


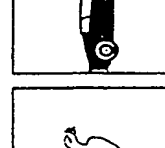
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JACKET DESIGN CODE B

Figure 5

# ALBUM TITLE

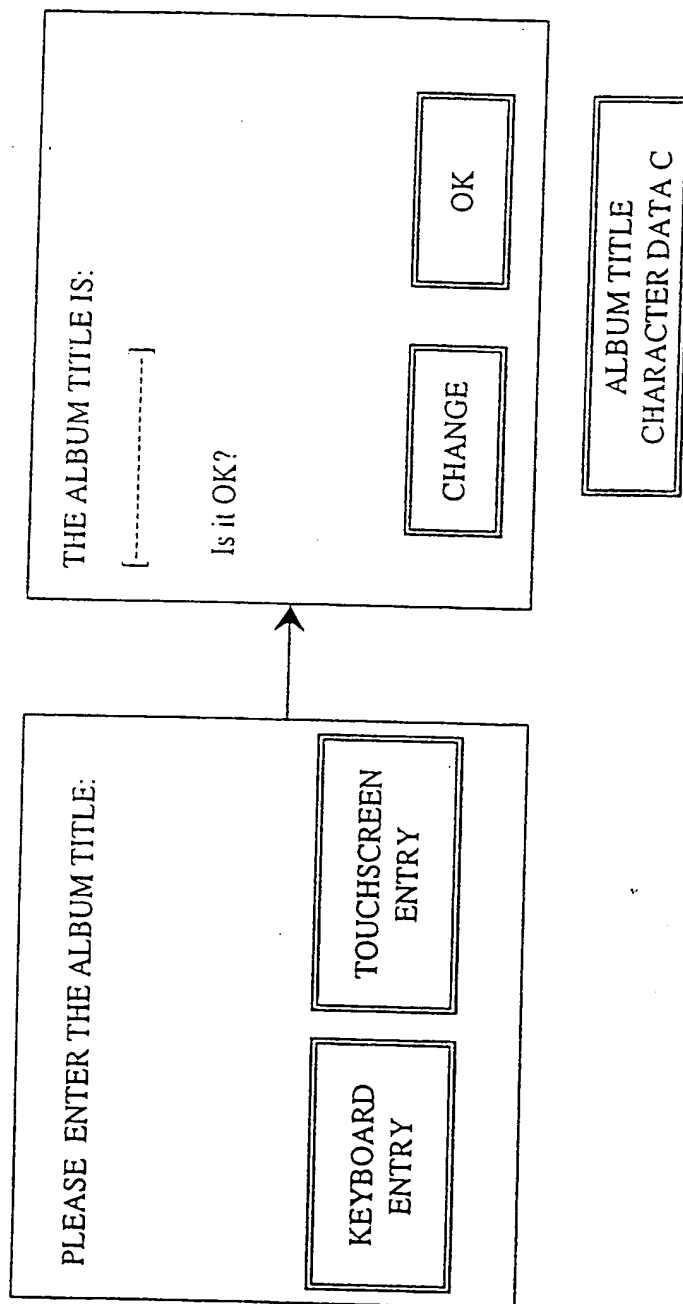


Figure 6

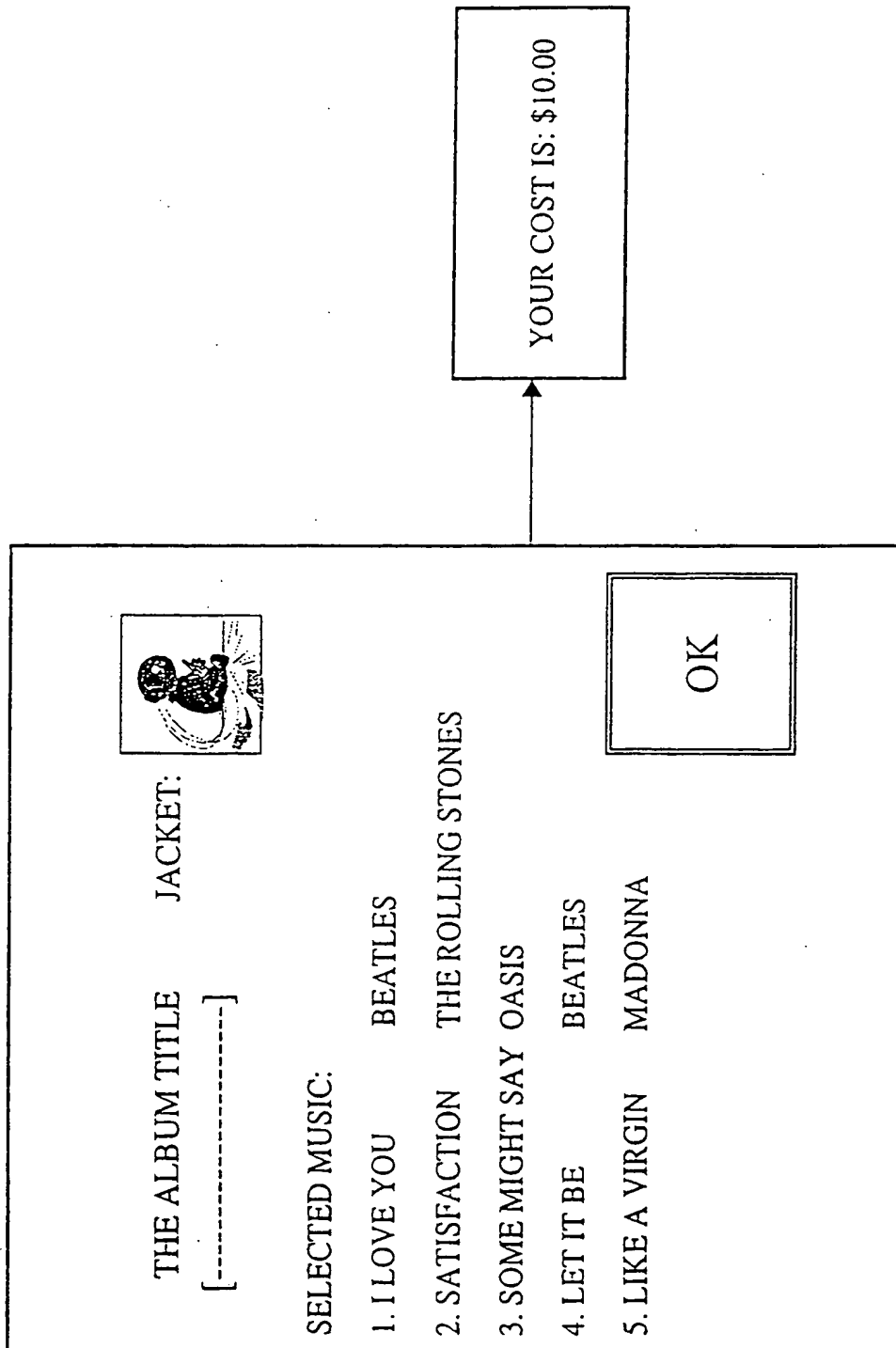


Figure 7

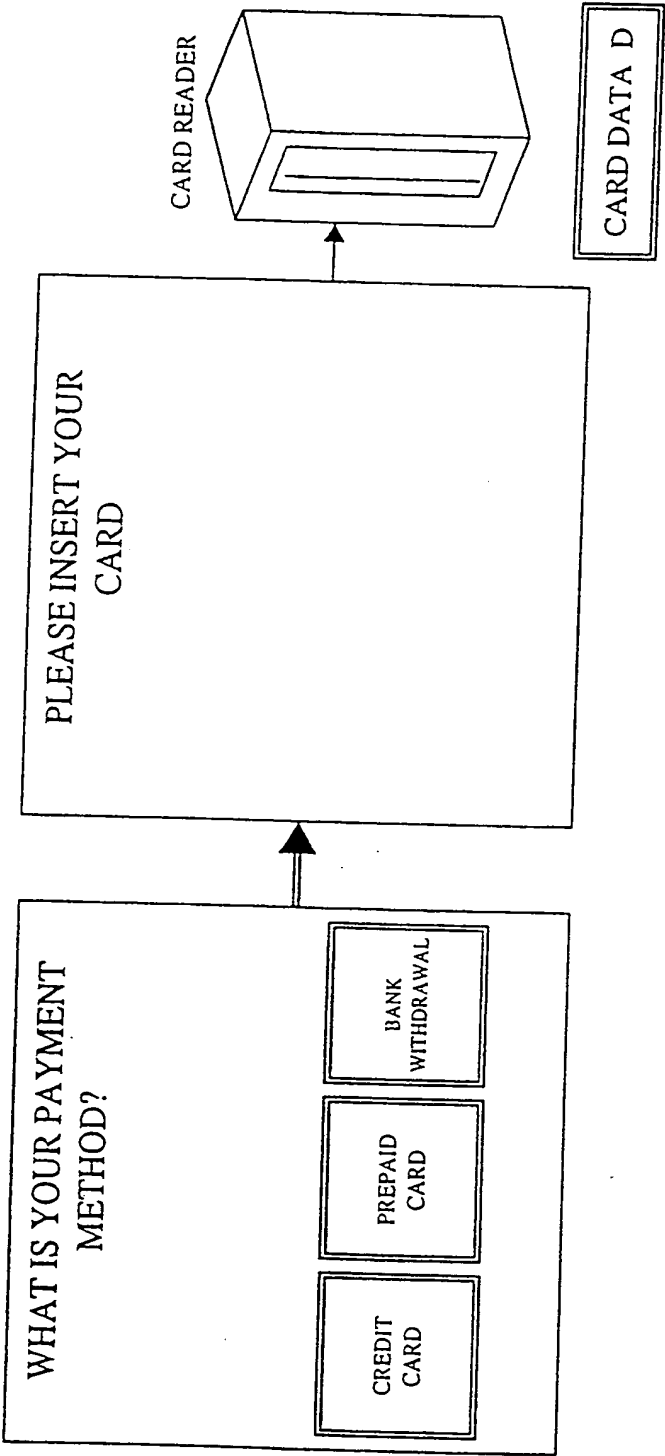


Figure 8



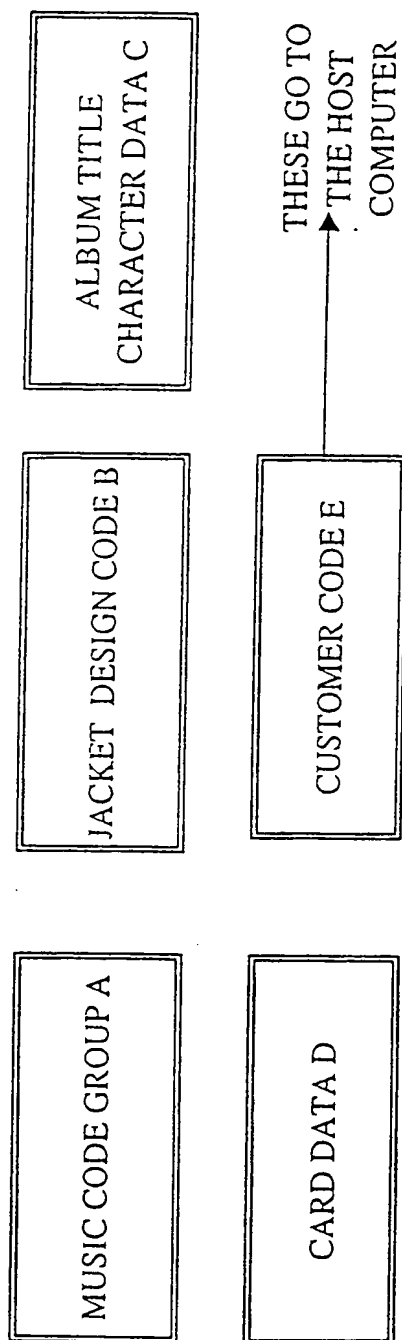


Figure 9

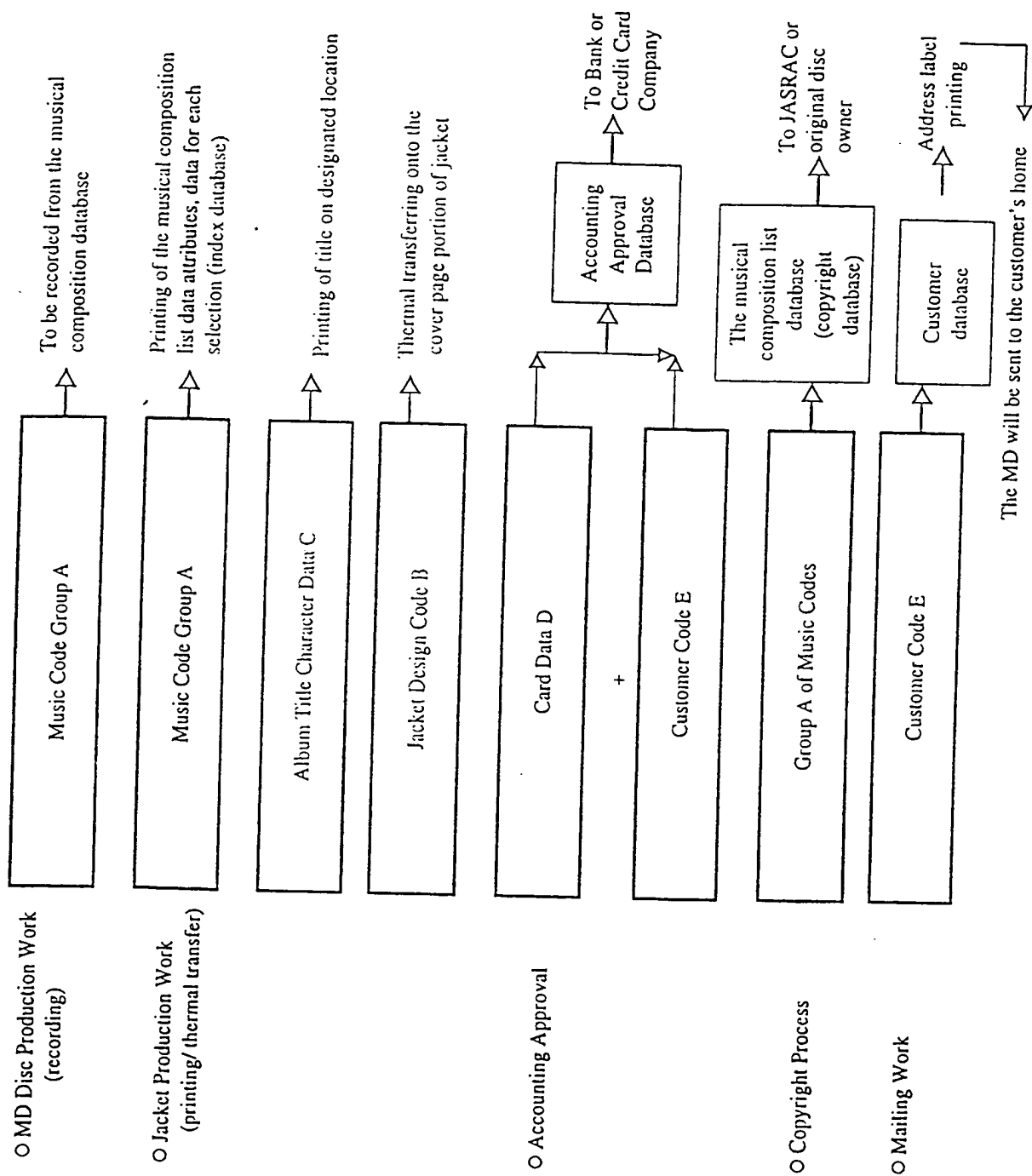


Figure 10

\*Country Code is based on international telephone code

*Music Attributes		MUSIC CODE		COMPOSITION NAME		MINUTES FOR COMPOSITION		NAME OF ARTIST(S)		COUNTRY CODE		MANUFACTURE DATE	
COUNTRY & WORK CODE													
OWNER OF ORIGINAL DISC				COUNTRY CODE		CO-OWNER		COUNTRY CODE					
*Original Disc Rights													
SONGWRITER		COUNTRY CODE		Representative Publisher		COUNTRY CODE		Co-Publisher		COUNTRY CODE			
*Copyrights													
MUSICAL COMPOSER		COUNTRY CODE		Representative Publisher		COUNTRY CODE		Co-Publisher		COUNTRY CODE			
MUSICAL ARRANGER		COUNTRY CODE		Representative Publisher		COUNTRY CODE		Co-Publisher		COUNTRY CODE			
MIDI DATA				LIVE MUSIC SCORE				WORDS					
*Music Score													
DIGITAL SOUND SOURCE													
*Sound Source													

Figure 11

# Index A - FIG. 12

## Japanese Music

Title of musical composition	Red Sweetpea
Minutes of Musical Composition	5 Minutes 21 Seconds
Artist	Seiko Matsuda
Songwriter	Karuho Kureta
Musical Composer	Karuho Kureta
Manufactured Date	1982.7.1
Representative Country of original disc	Japan
Representative Company of original disc	Sony Music (Japan)
Option I	(Words)
Option II	(Music Score)

# Index B - FIG. 13

## Western Music

Title of musical composition	Yesterday
Minutes of Musical Composition	4 Minutes 50 Seconds
Artist	The Beatles
Songwriter	John Lennon
Musical Composer	Paul McCartney
Manufactured Date	1968.7.1
Representative Country of original disc	England
Representative Company of original disc	Big Apple
Option I	(Words)
Option II	(Music Score)

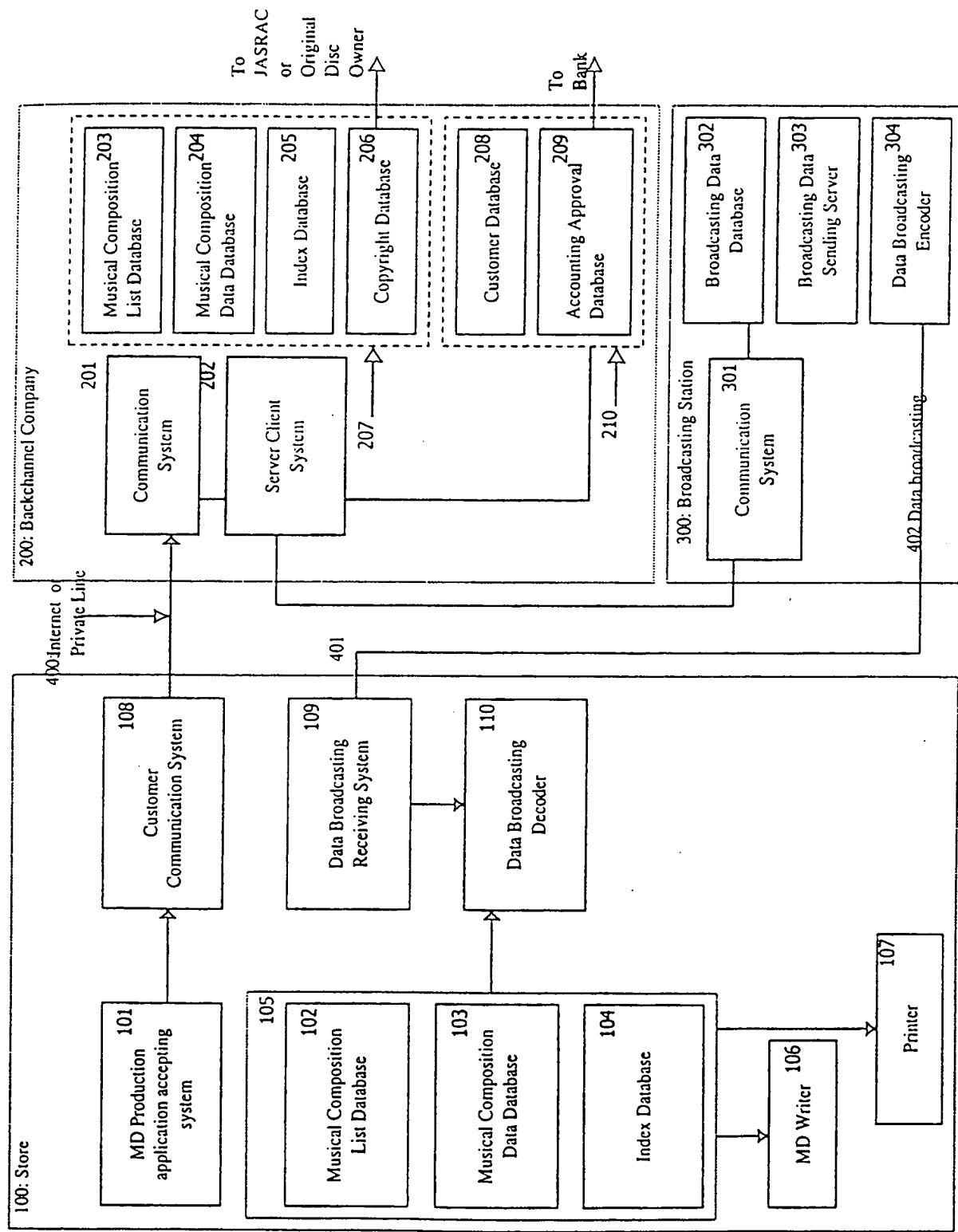


Figure 14

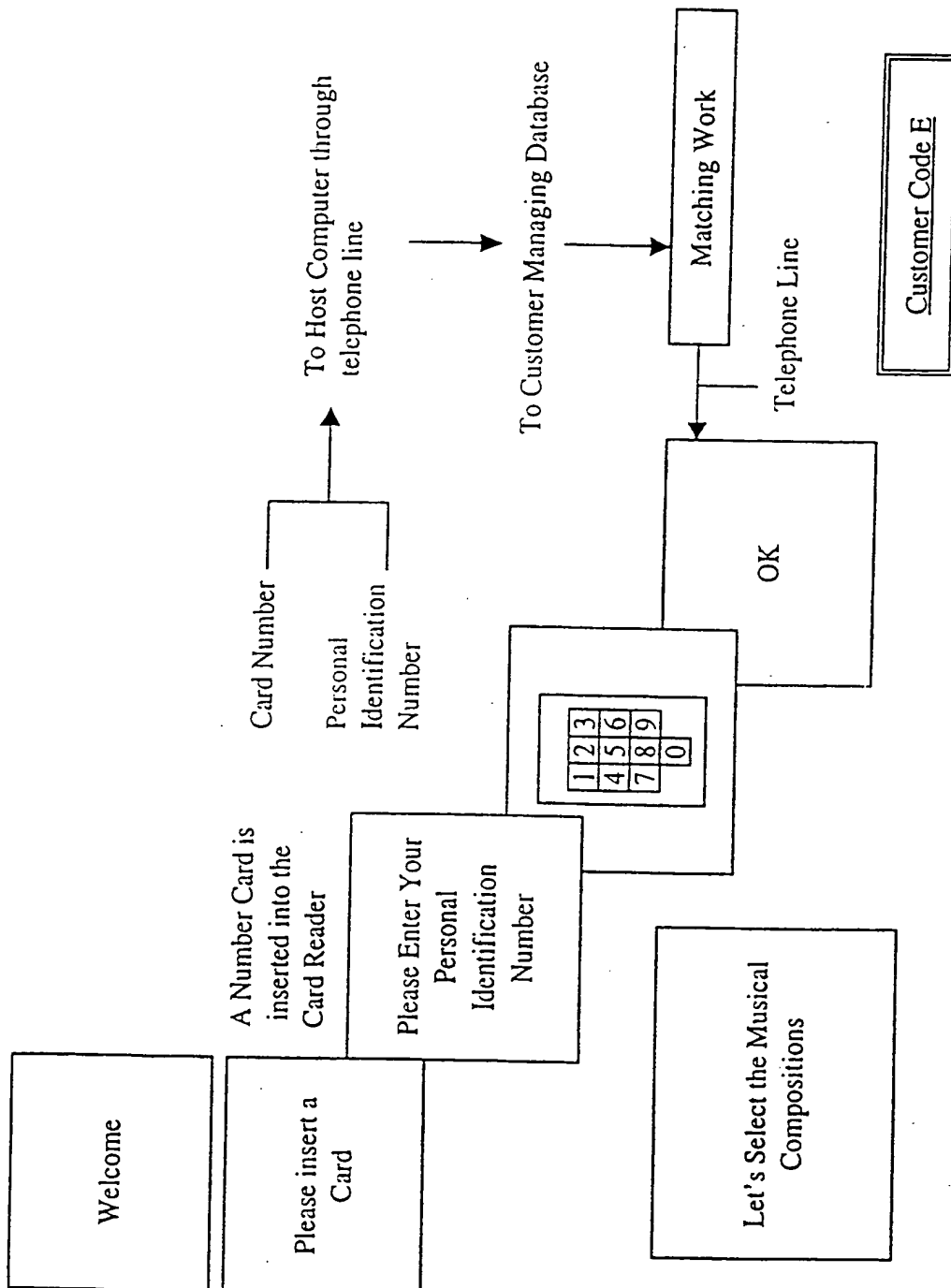


Figure 15

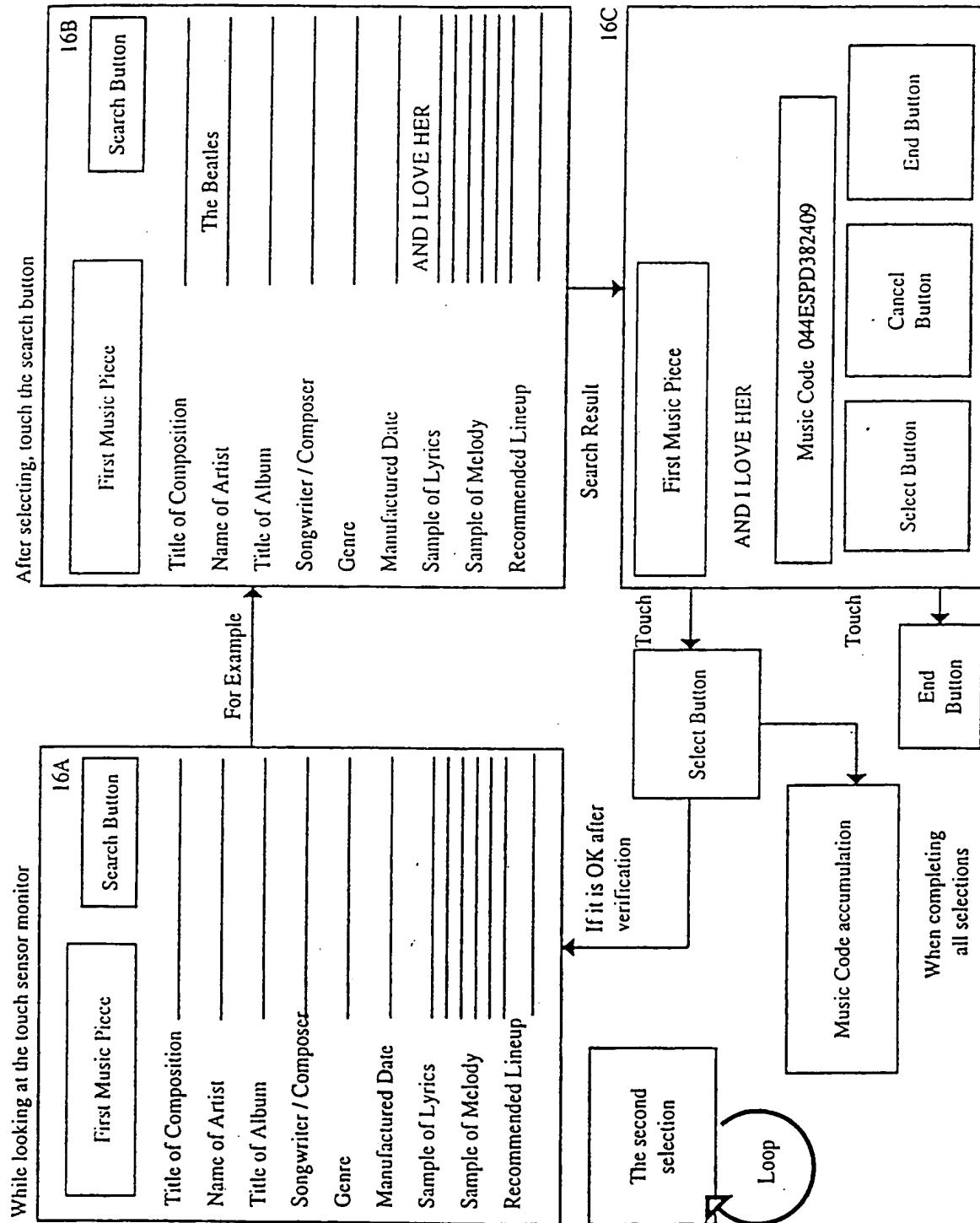


Figure 16

# MUSICAL COMPOSITION

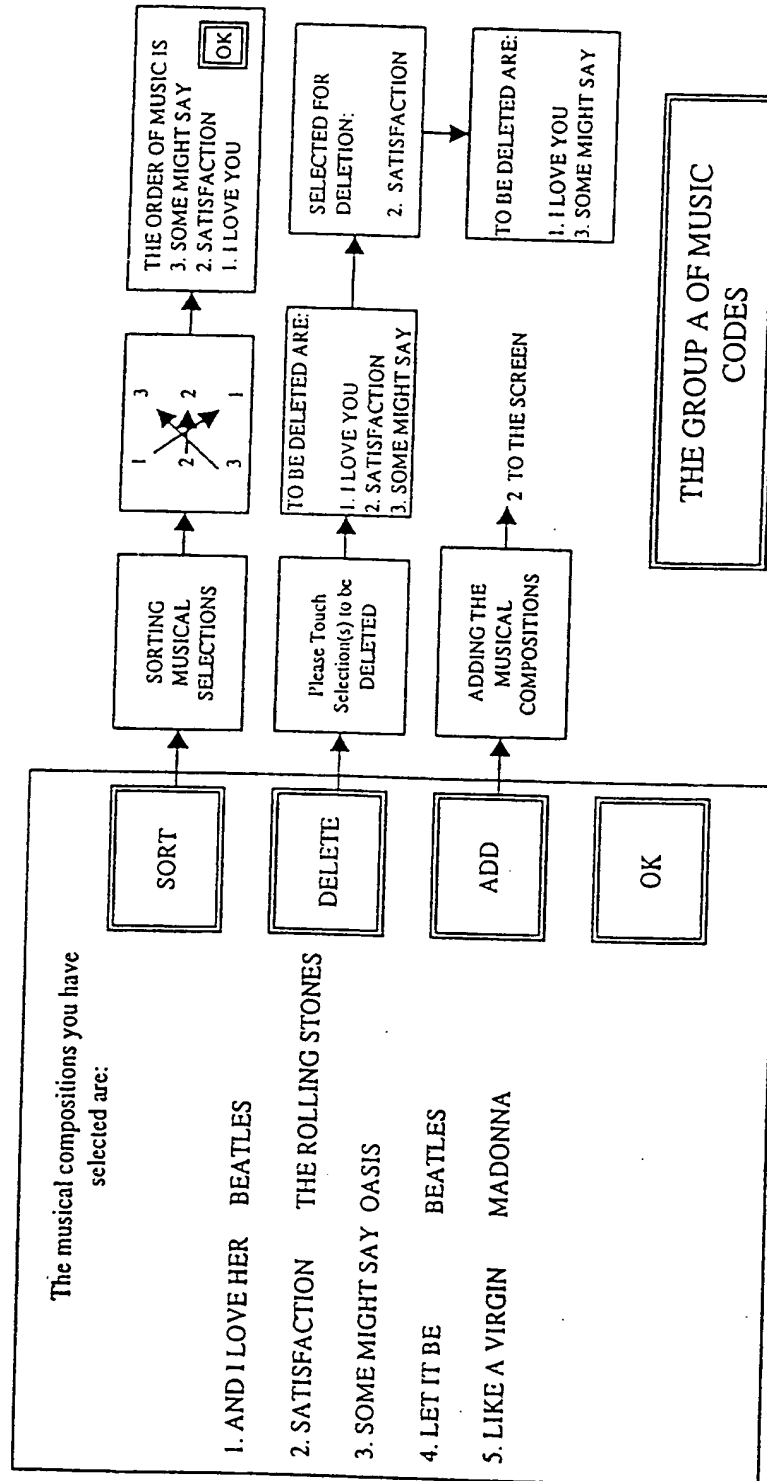


Figure 17



# JACKET DESIGN

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Figure 18

# ALBUM TITLE

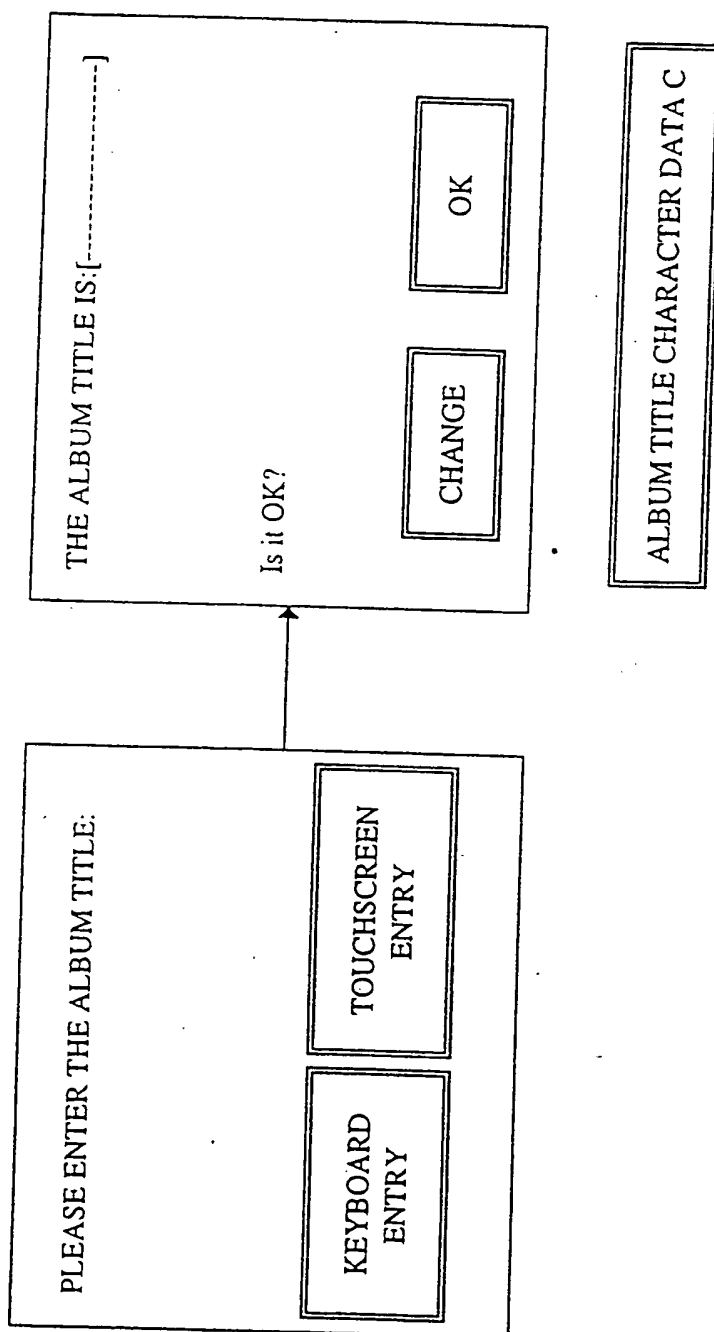


Figure 19

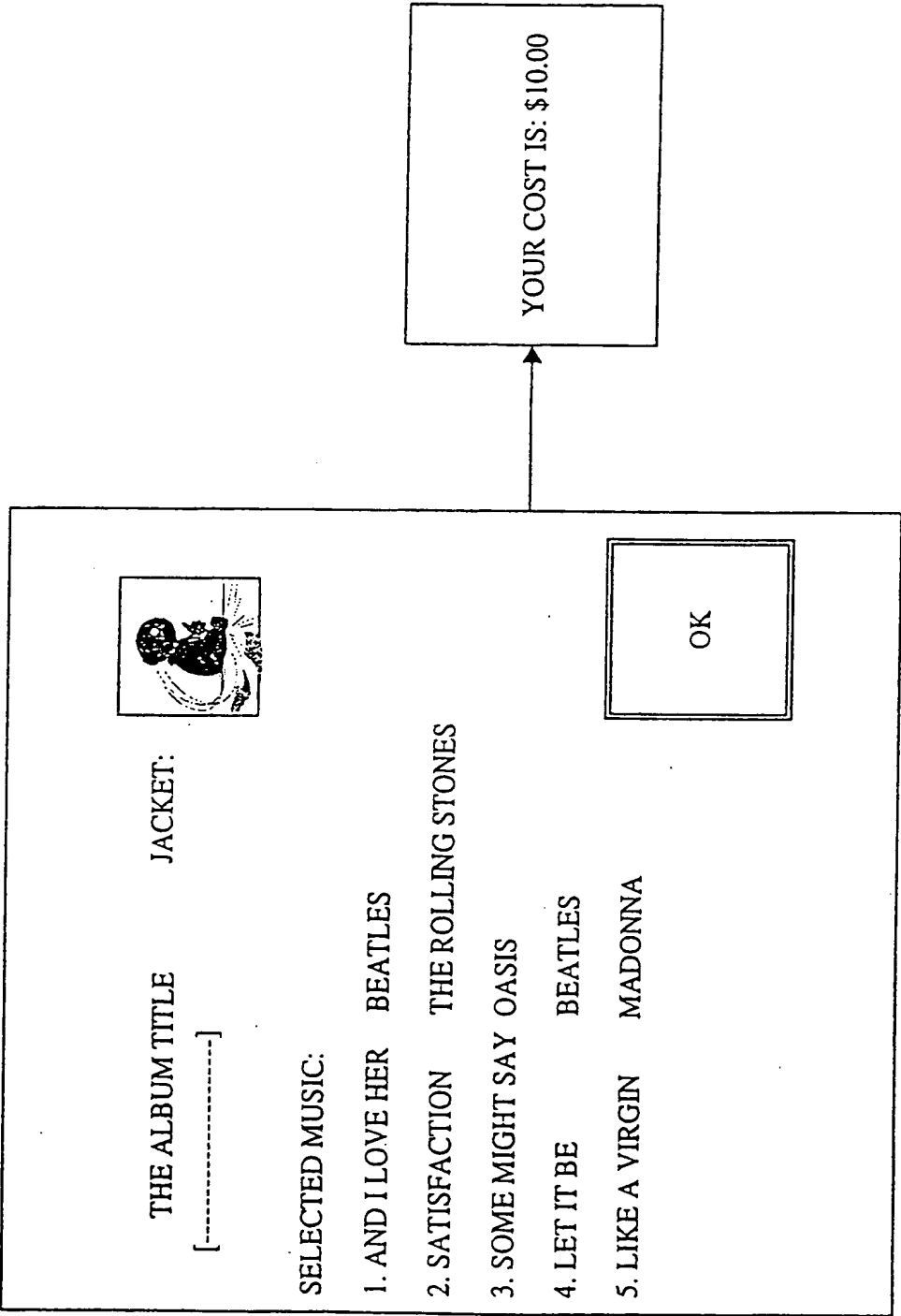


Figure 20

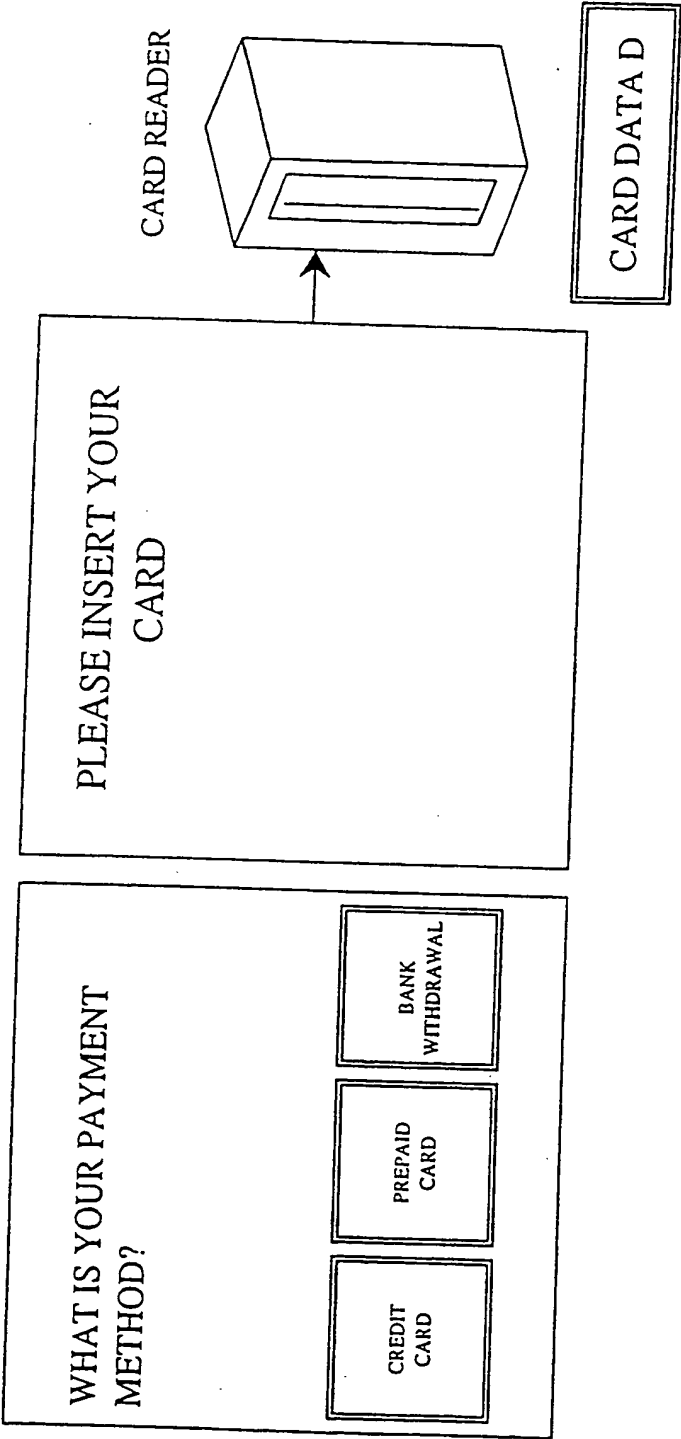


Figure 21

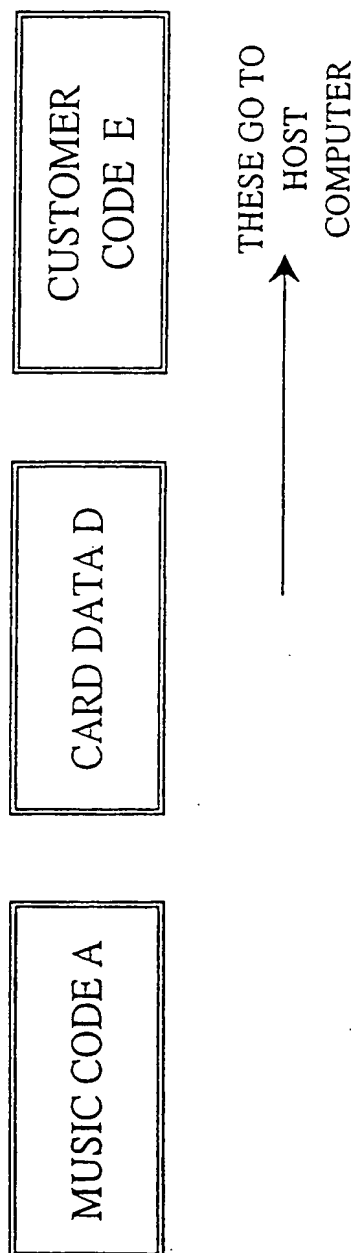
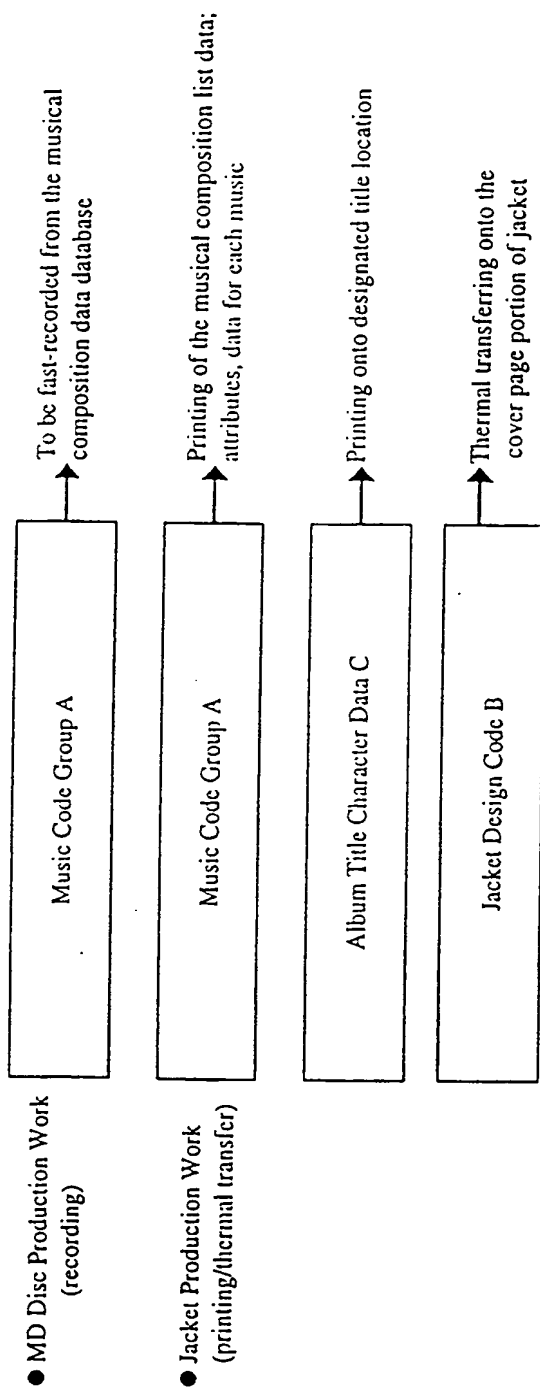


Figure 22

MD Production-Carry out in KIOSK



In the Backchannel Company

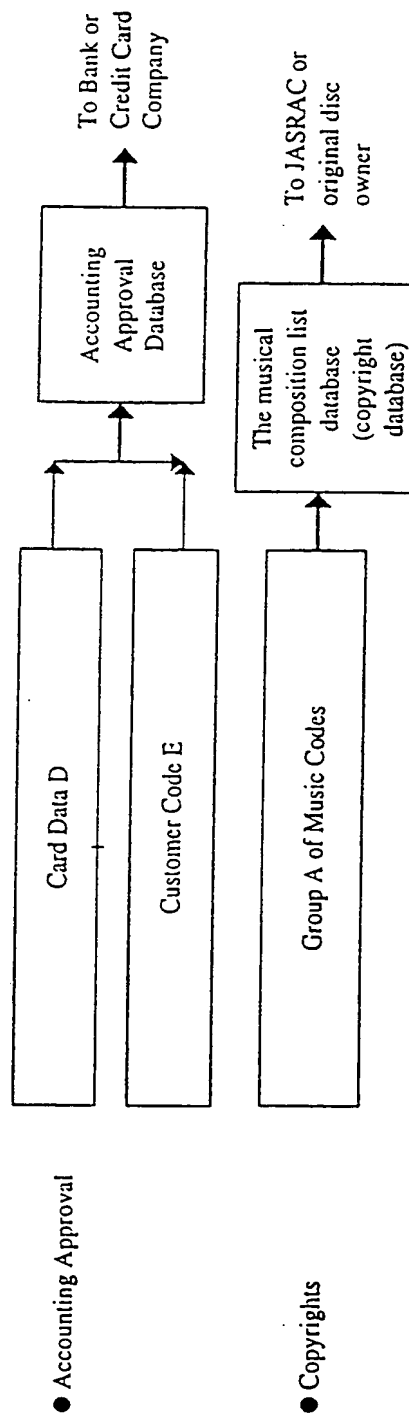


Figure 23

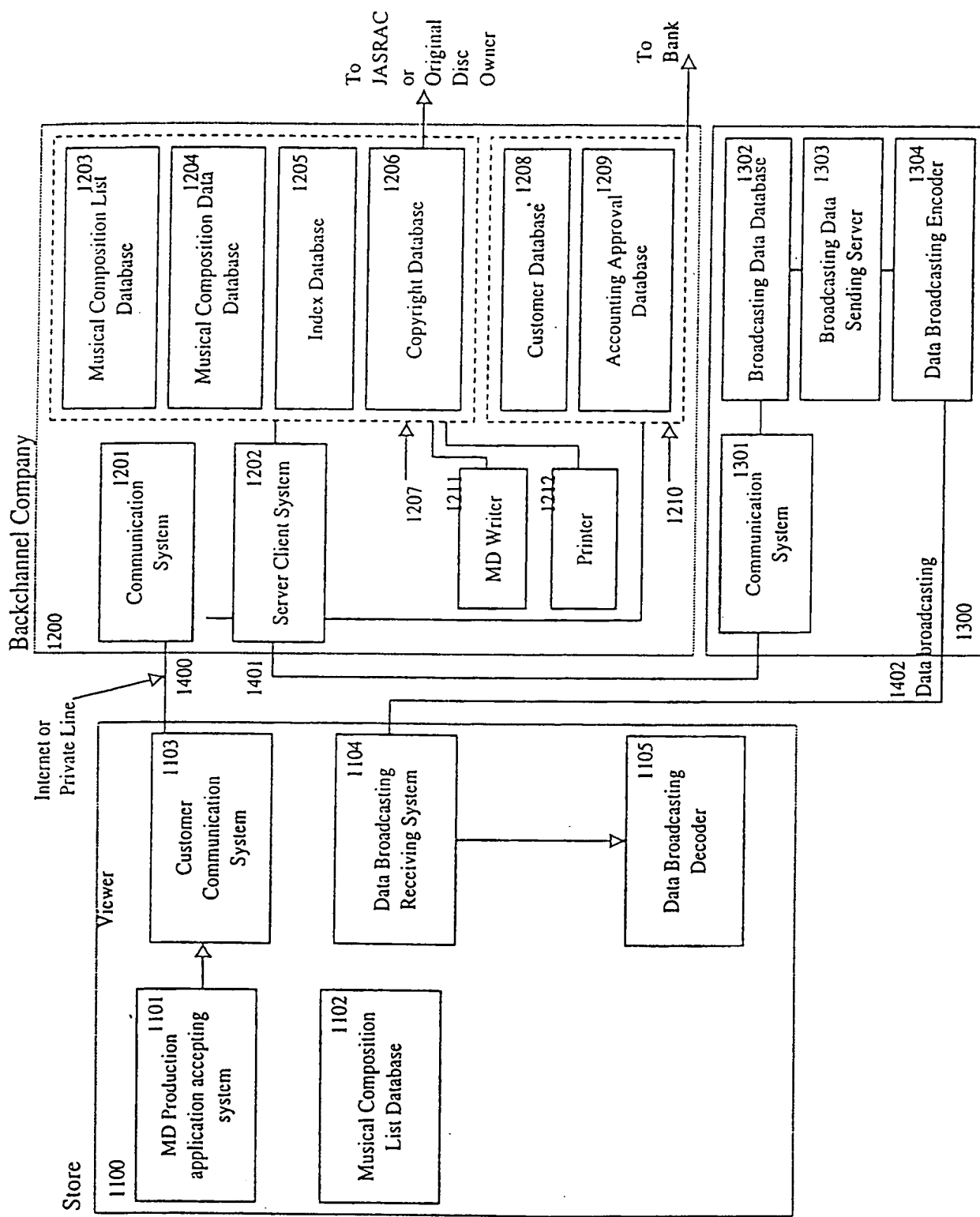


Figure 24

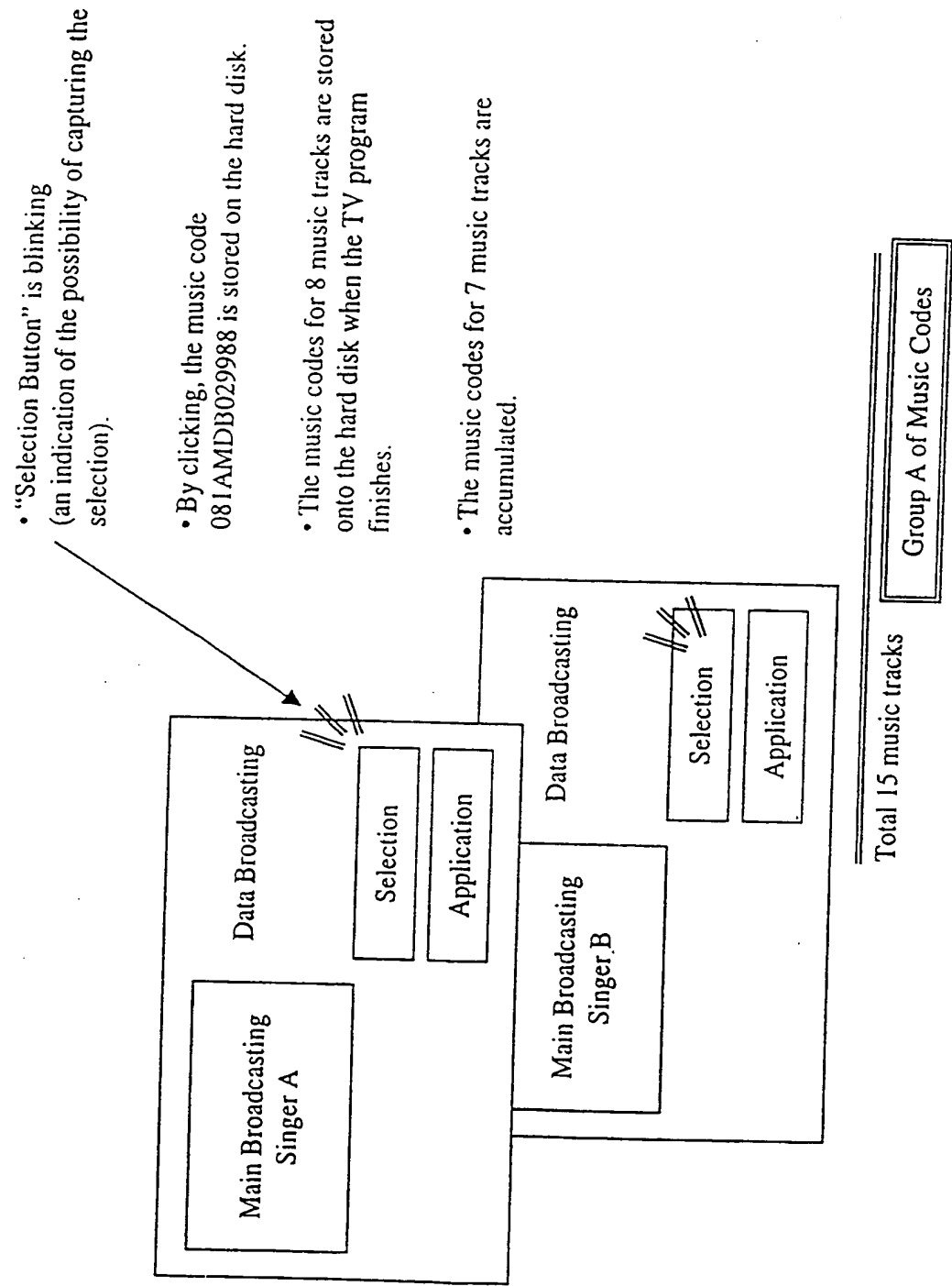


Figure 25



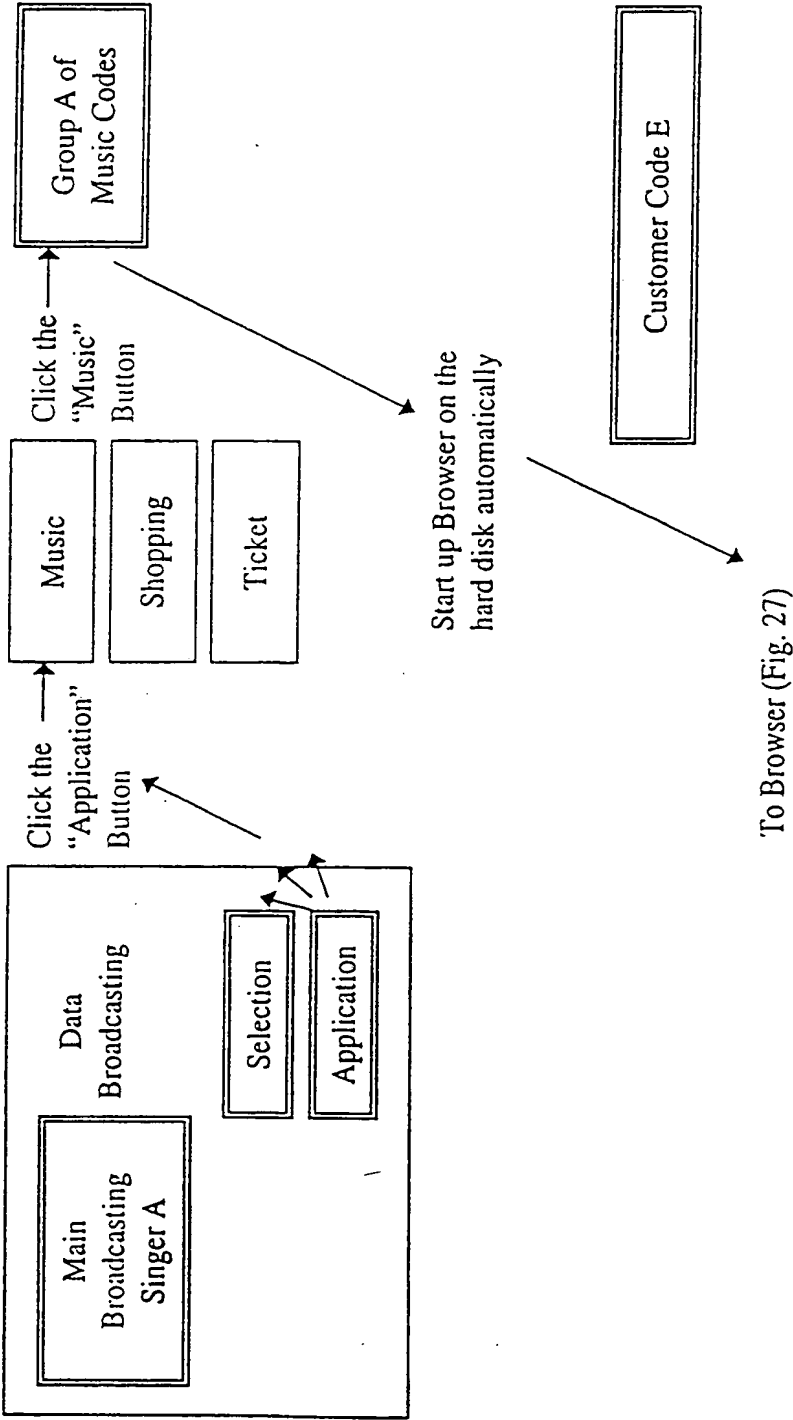


Figure 26

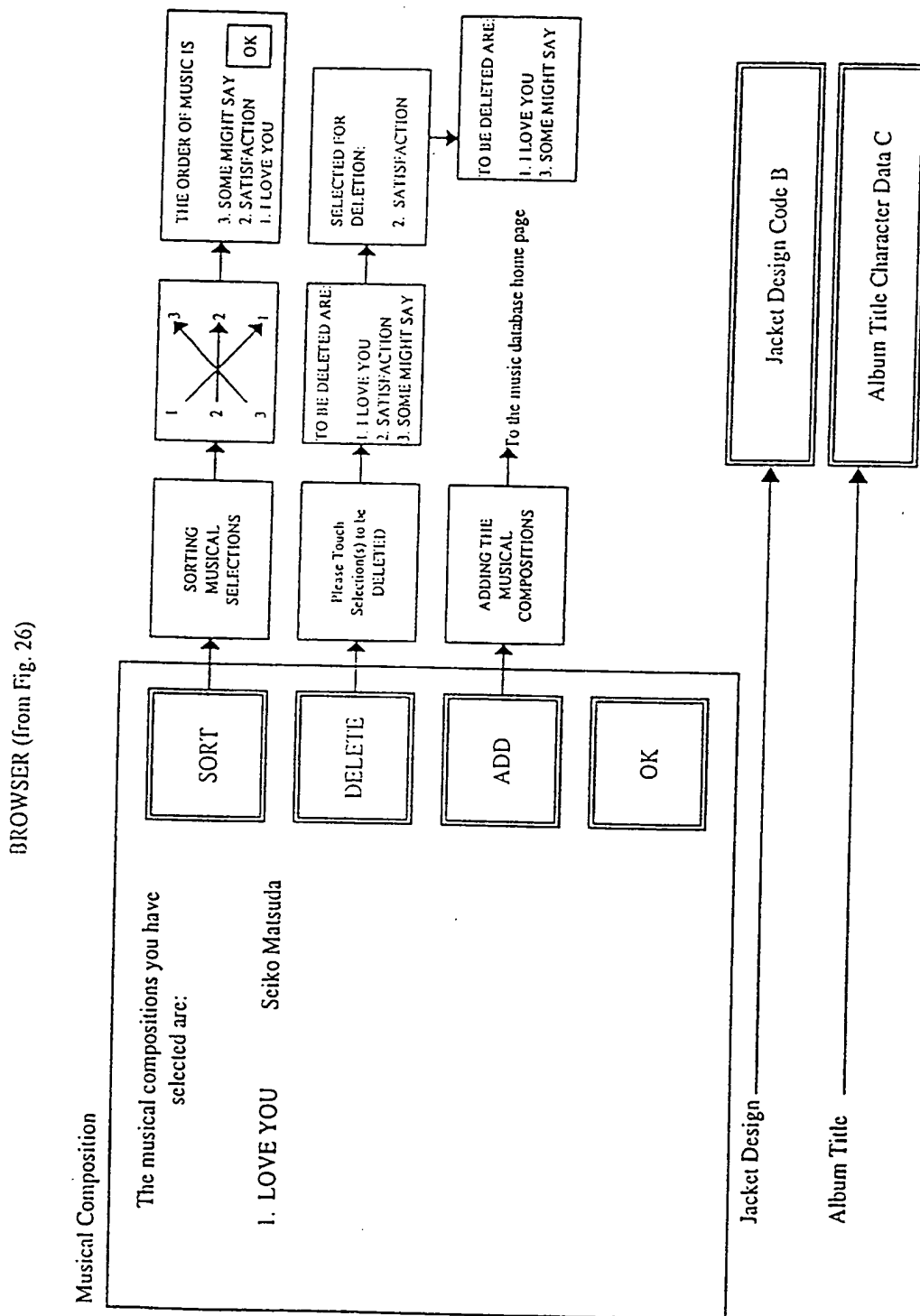


Figure 27

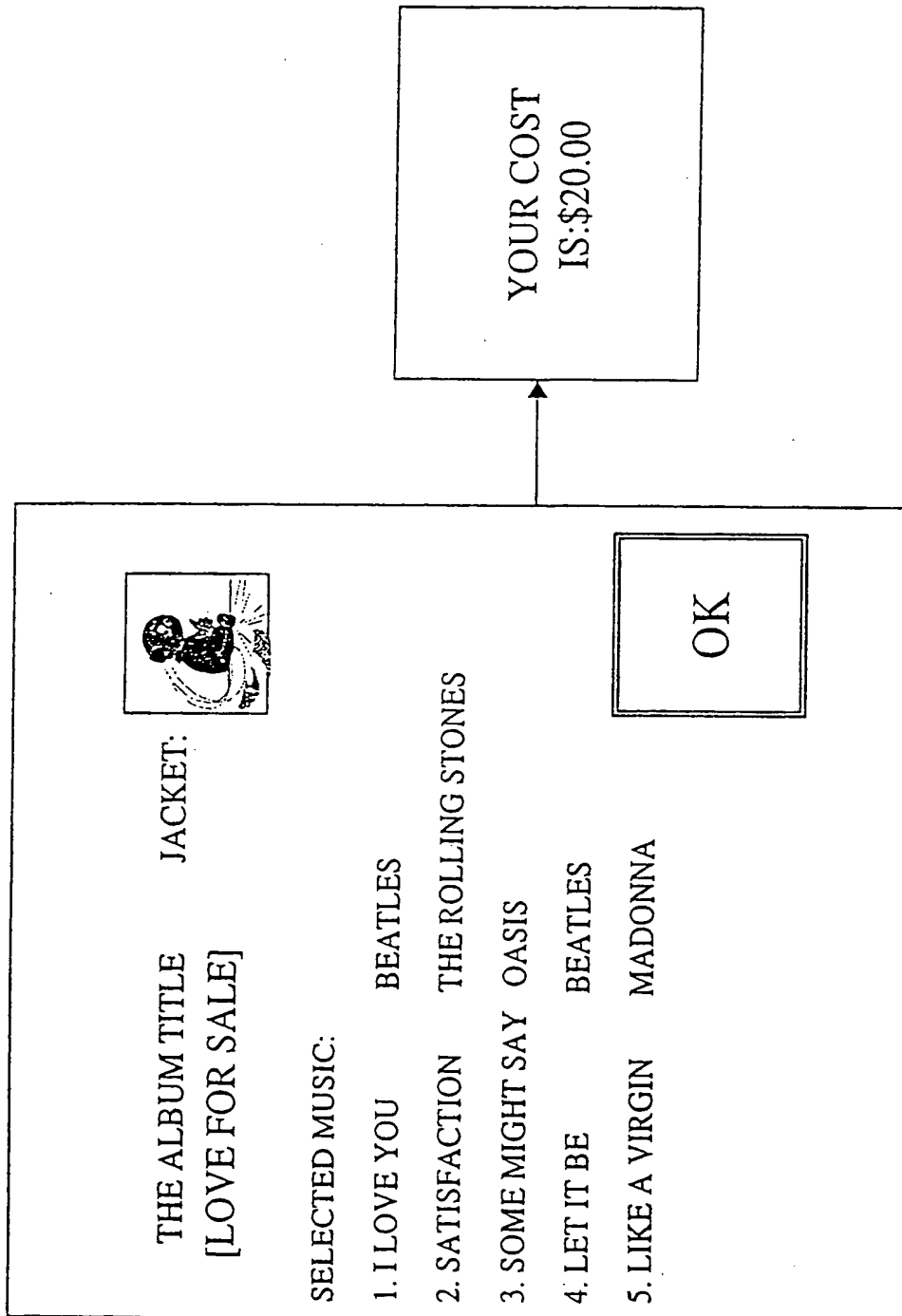


Figure 28

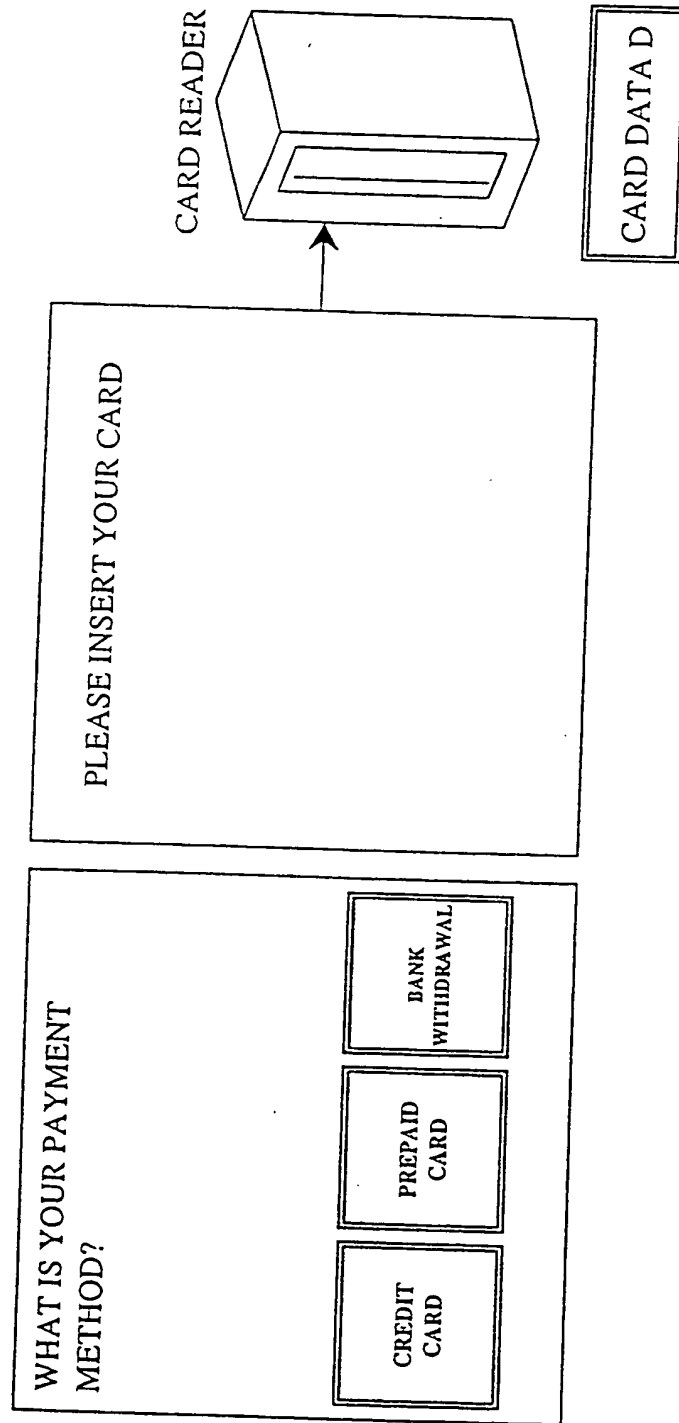


Figure 29

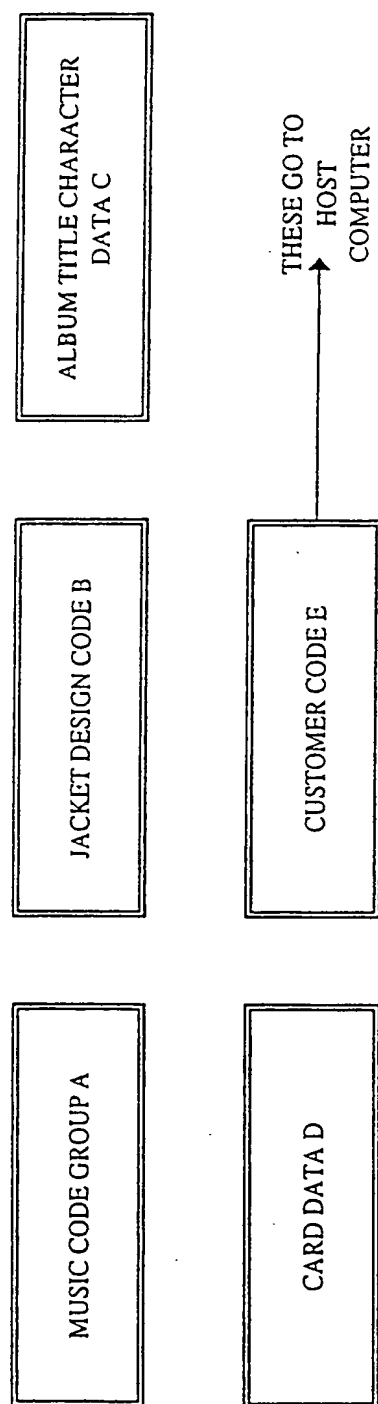


Figure 30

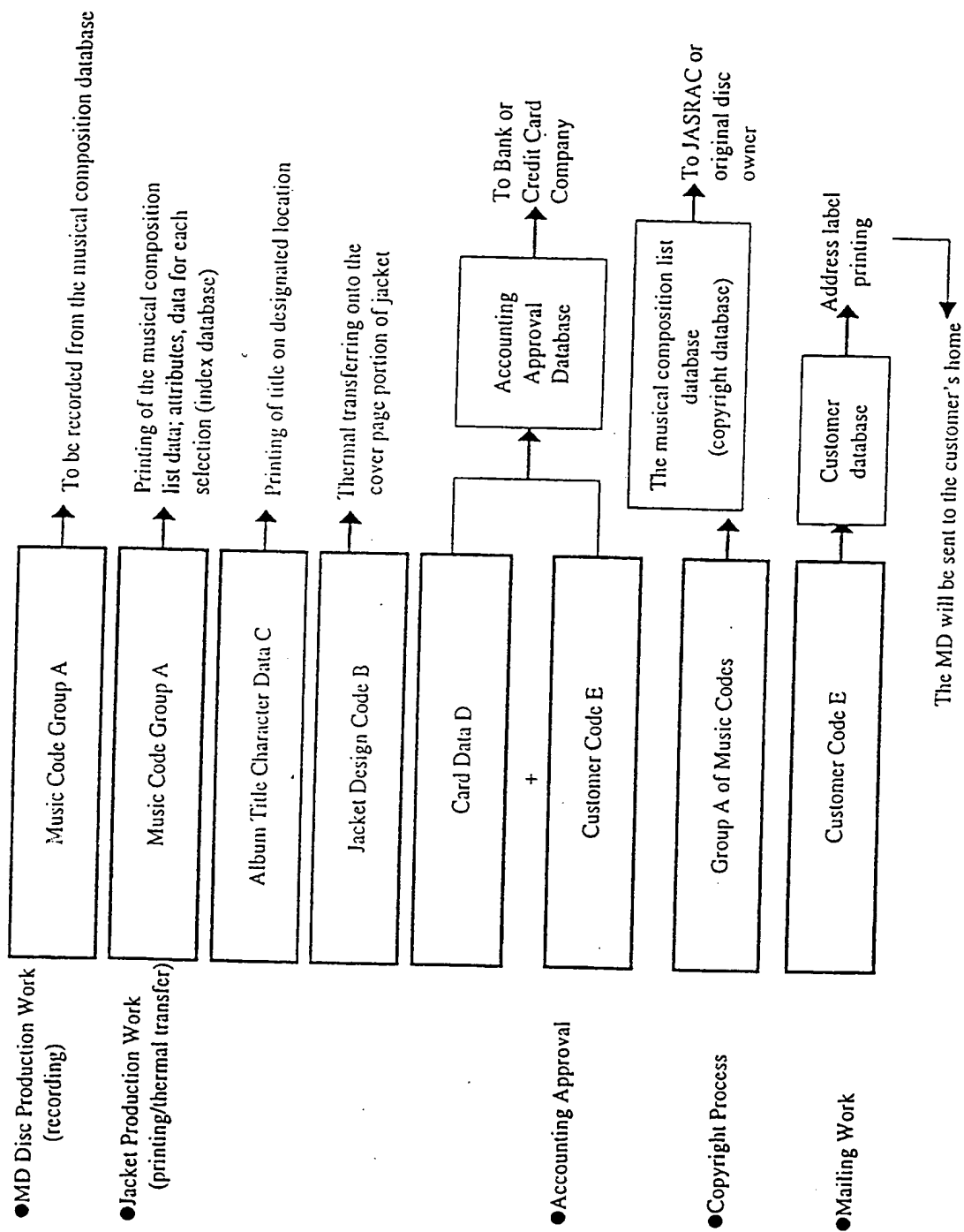


Figure 31

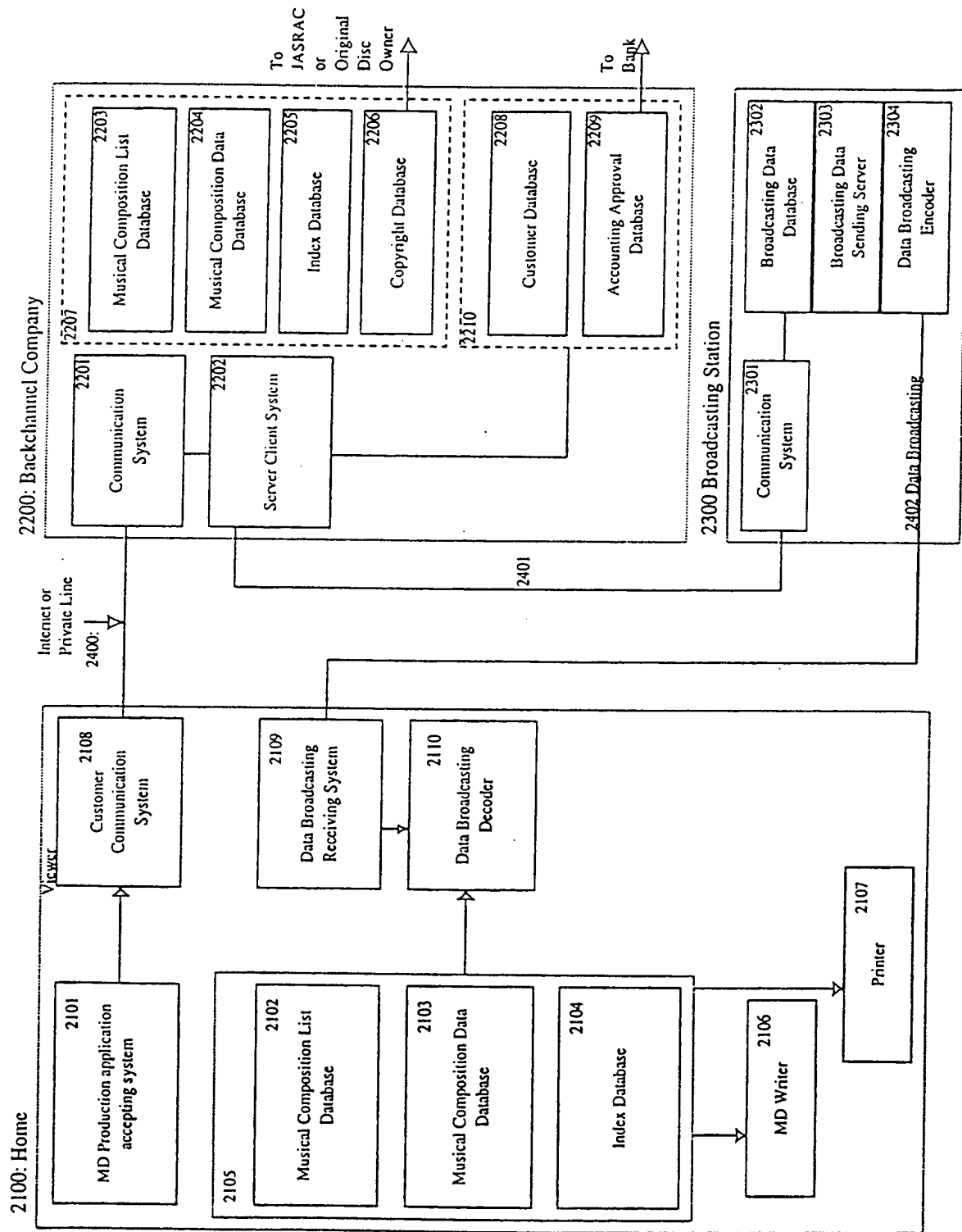


Figure 32

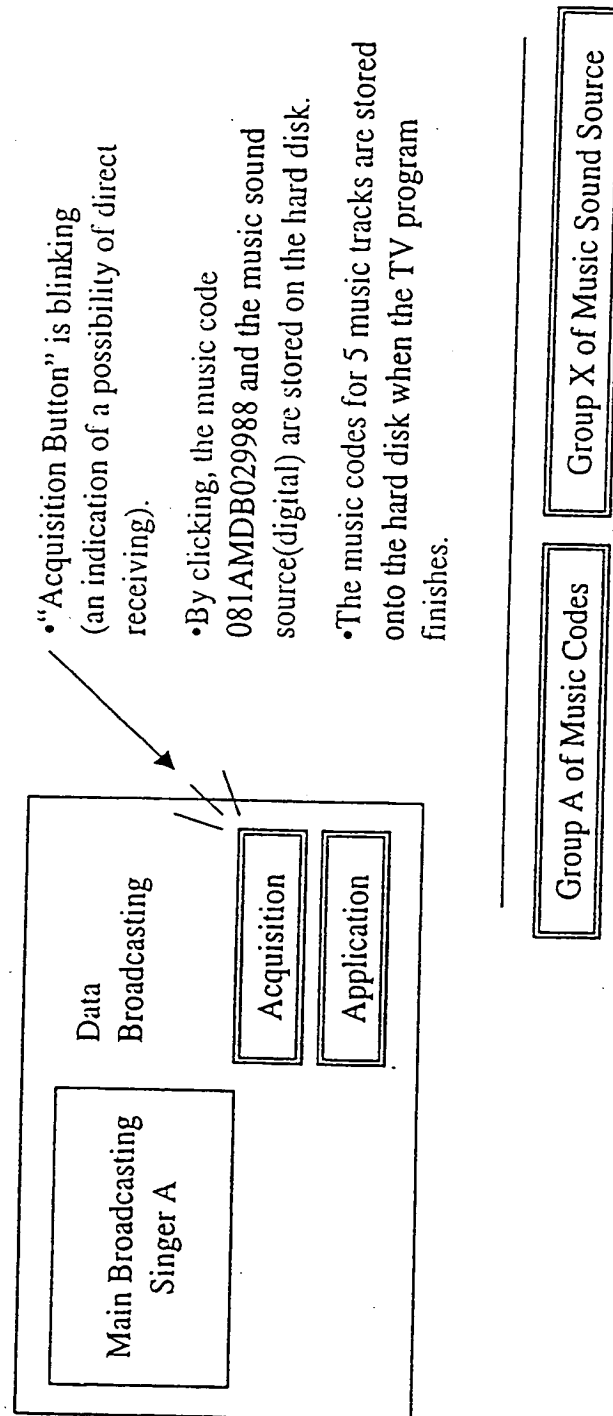


Figure 33



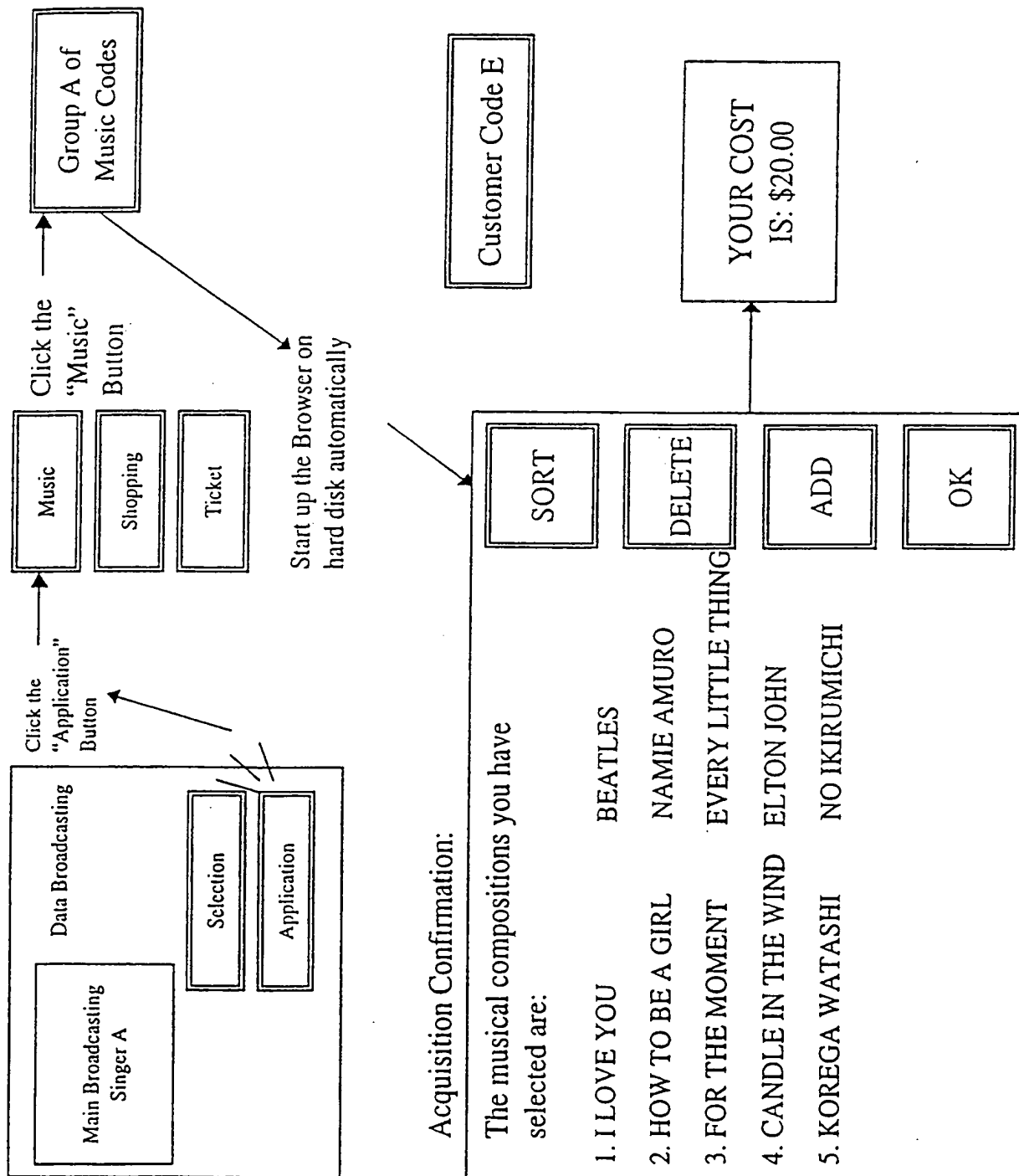


Figure 34

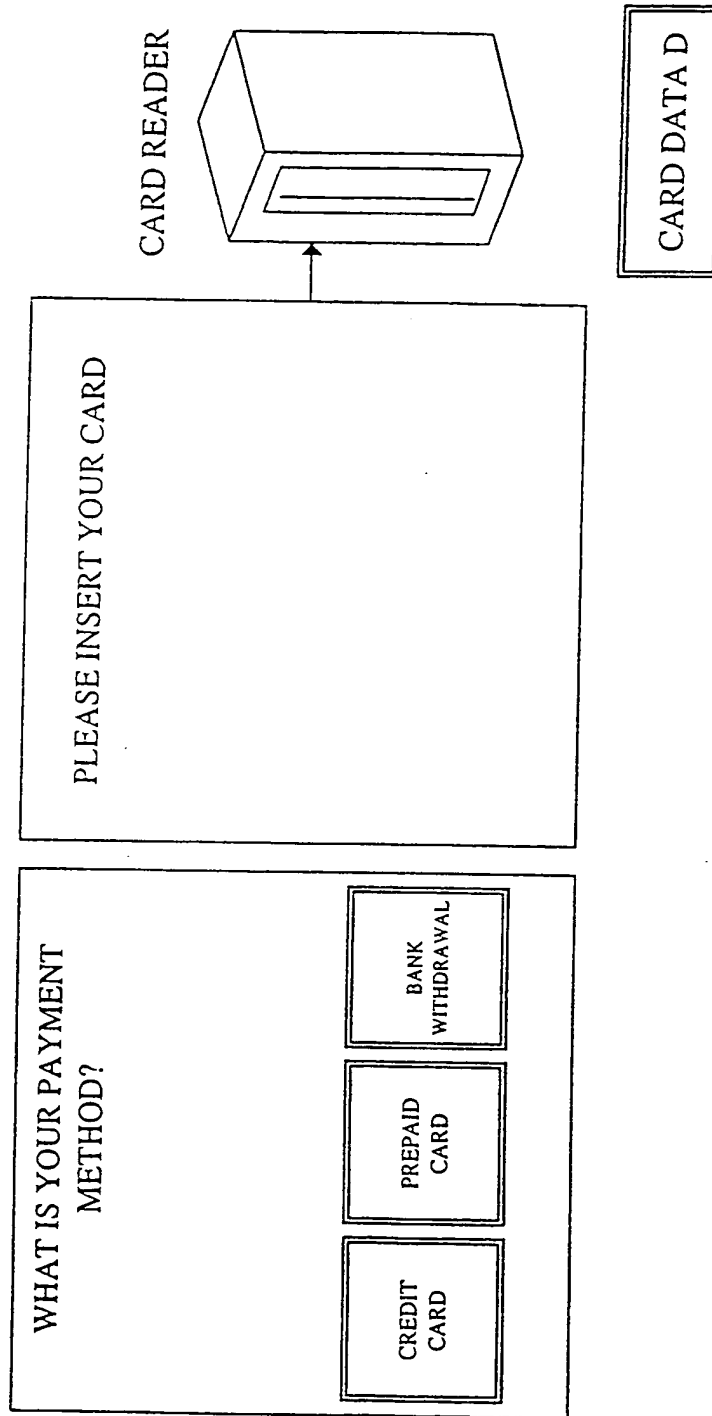


Figure 35

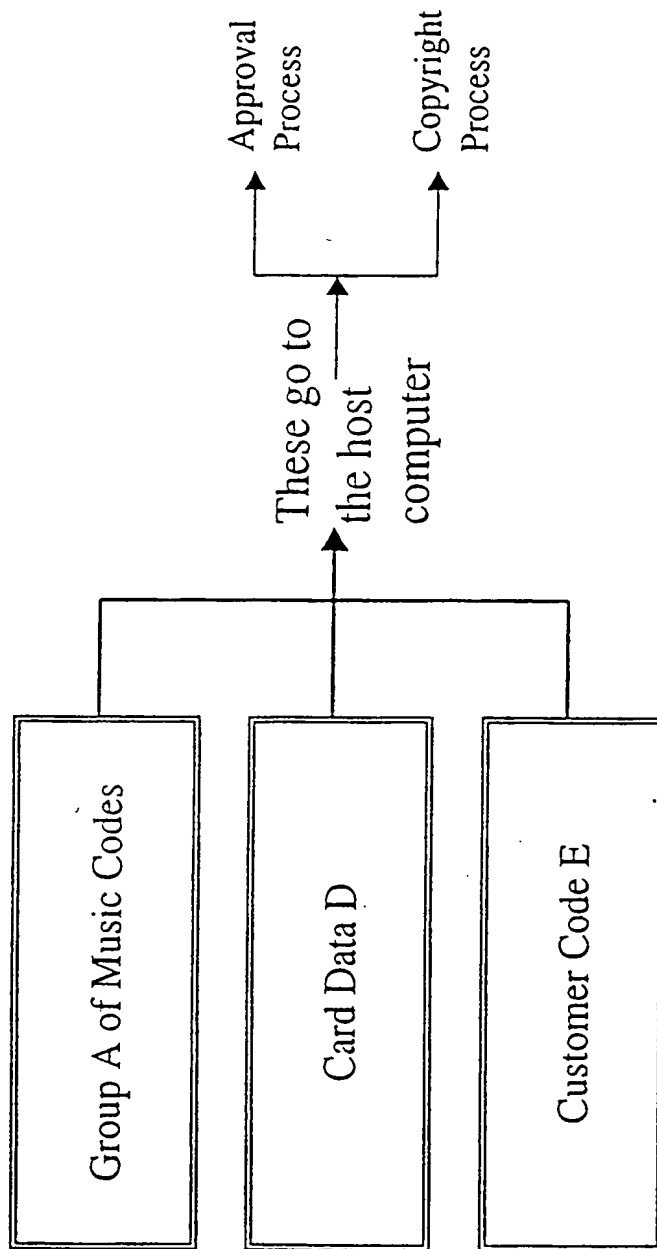


Figure 36

After having confirmed the receipt of ADE at the Host-Computer, the Approval Code B, which is attached to the customer data E, is transmitted to the Home PC.

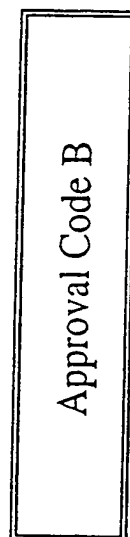


Figure 37

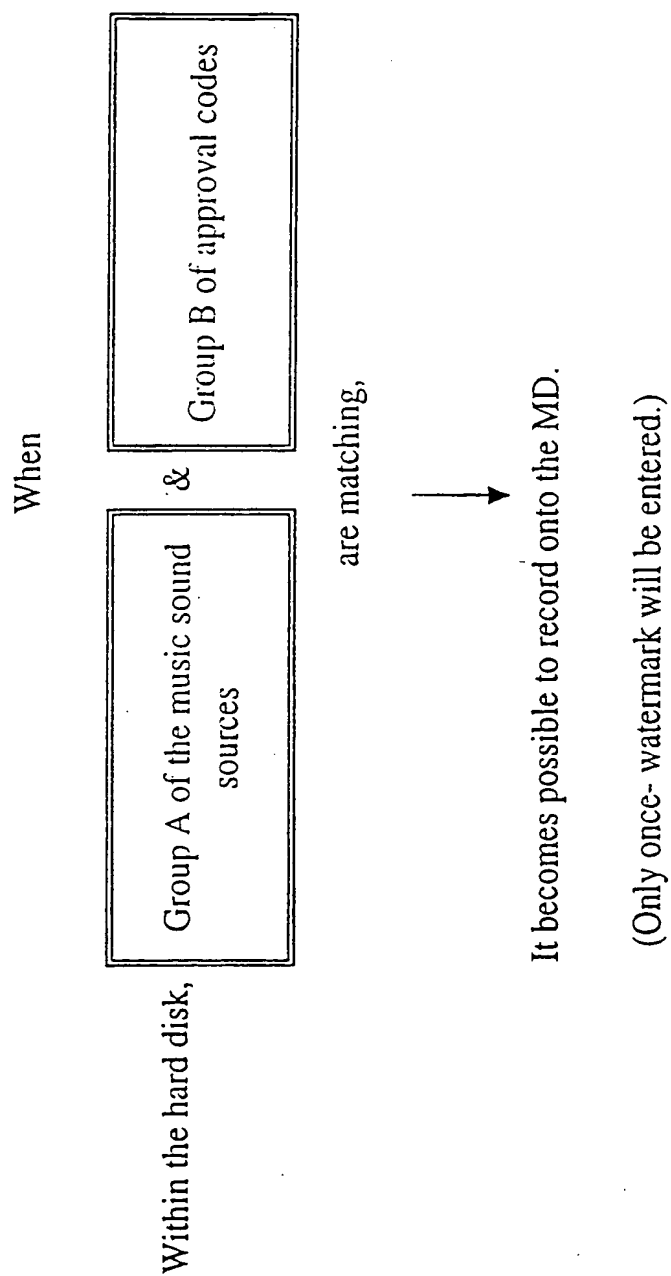


Figure 38

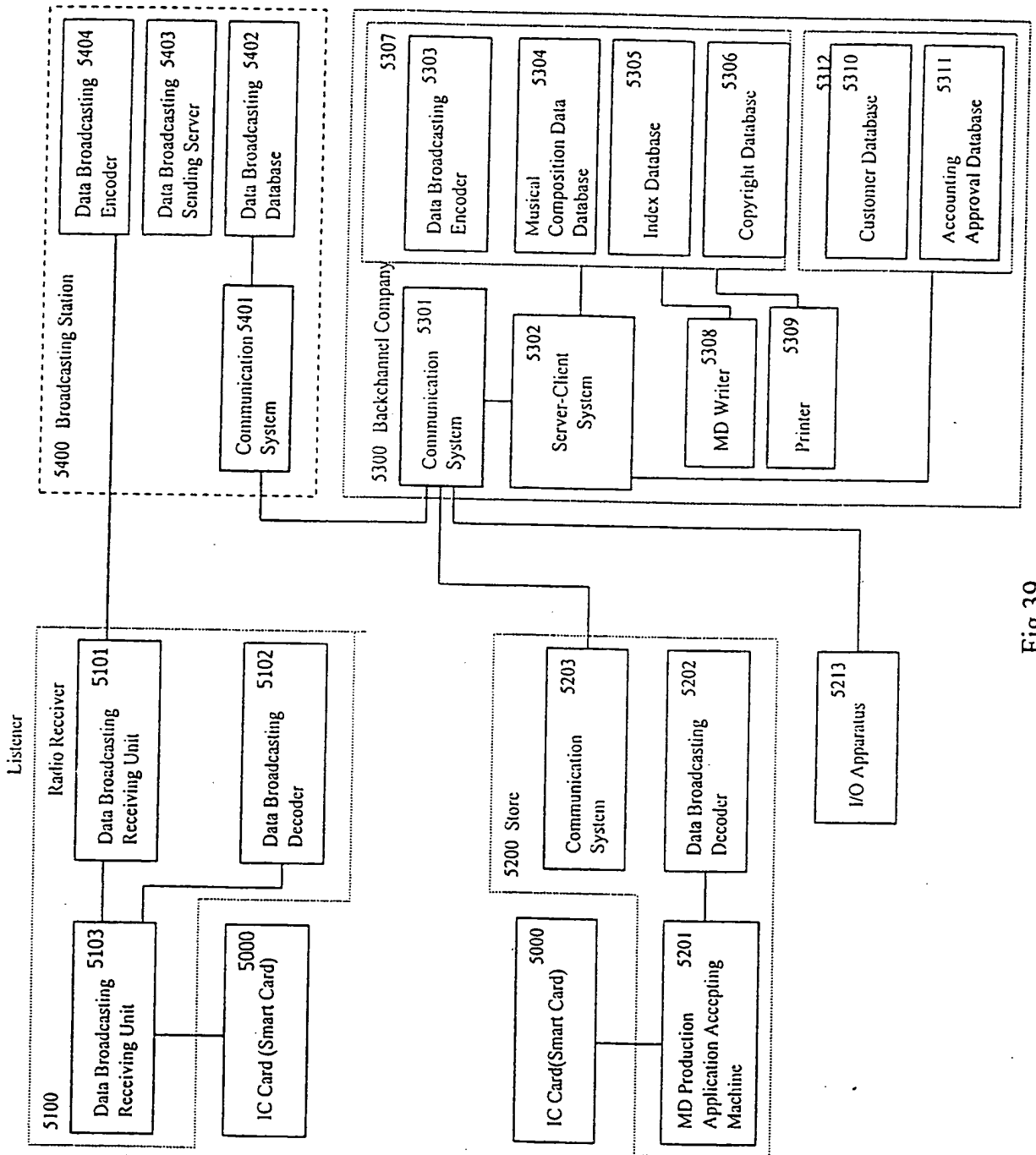


Fig 39

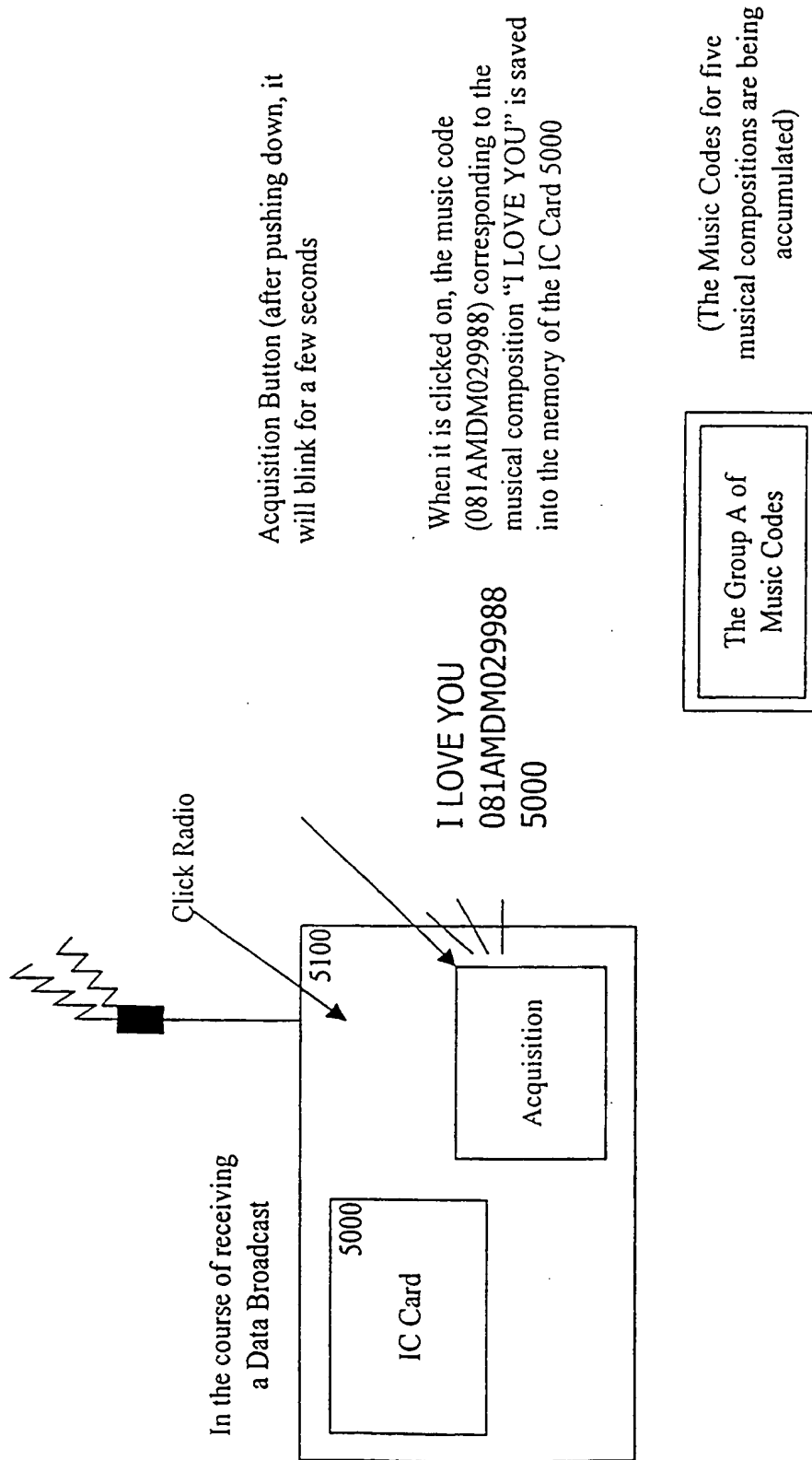


Fig 40

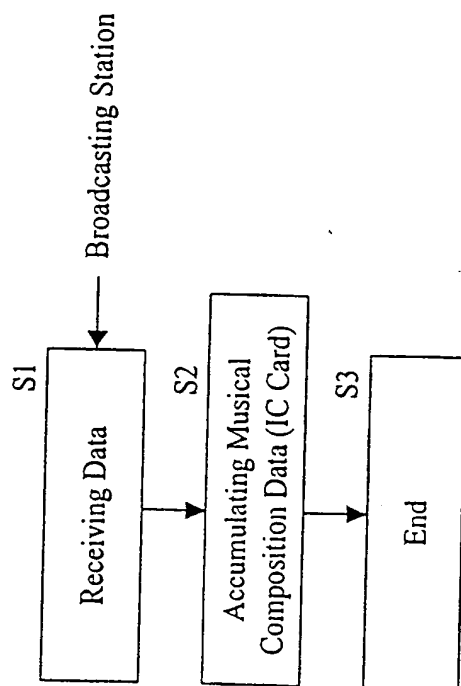


Fig 41



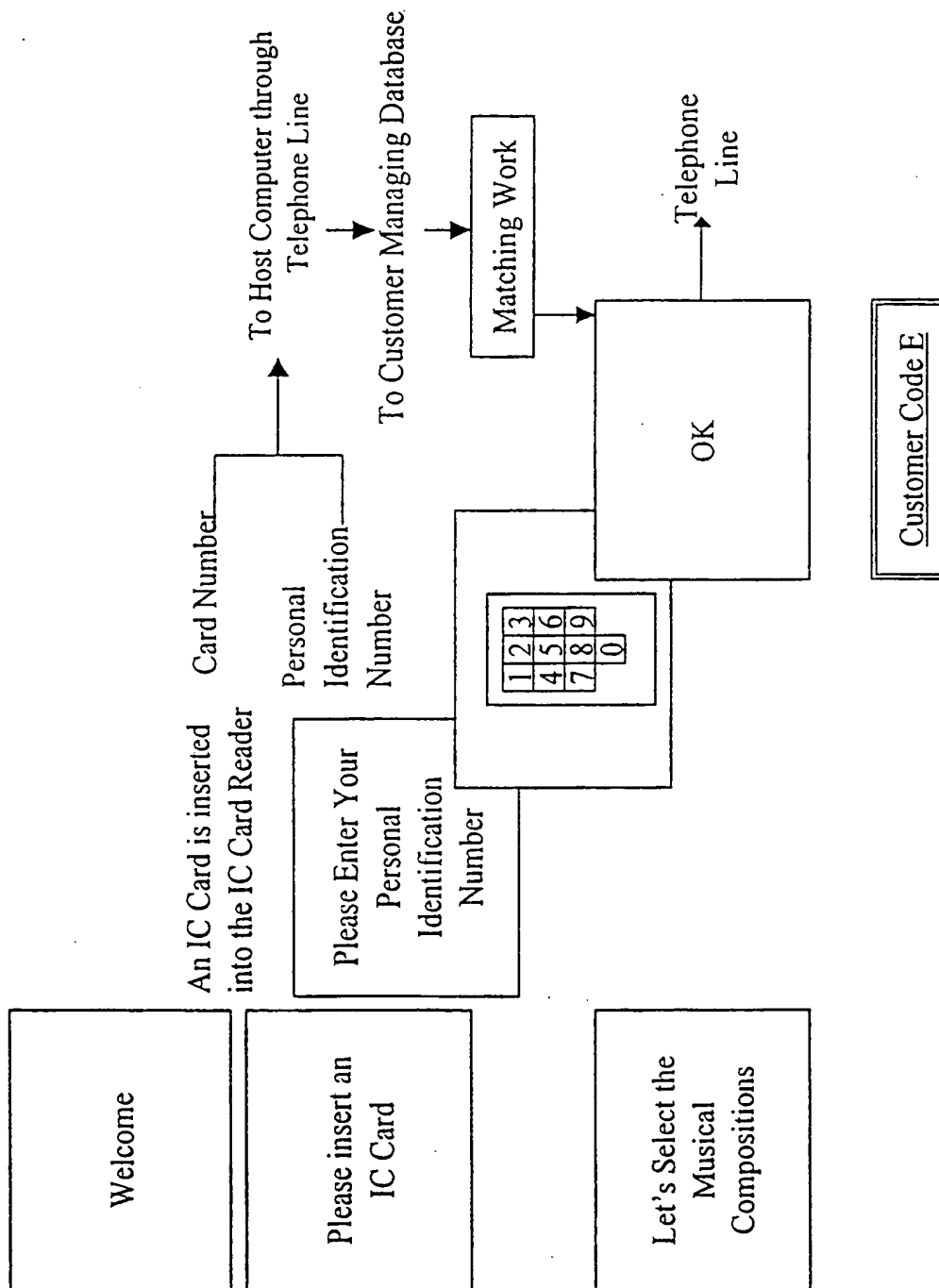


Fig 42

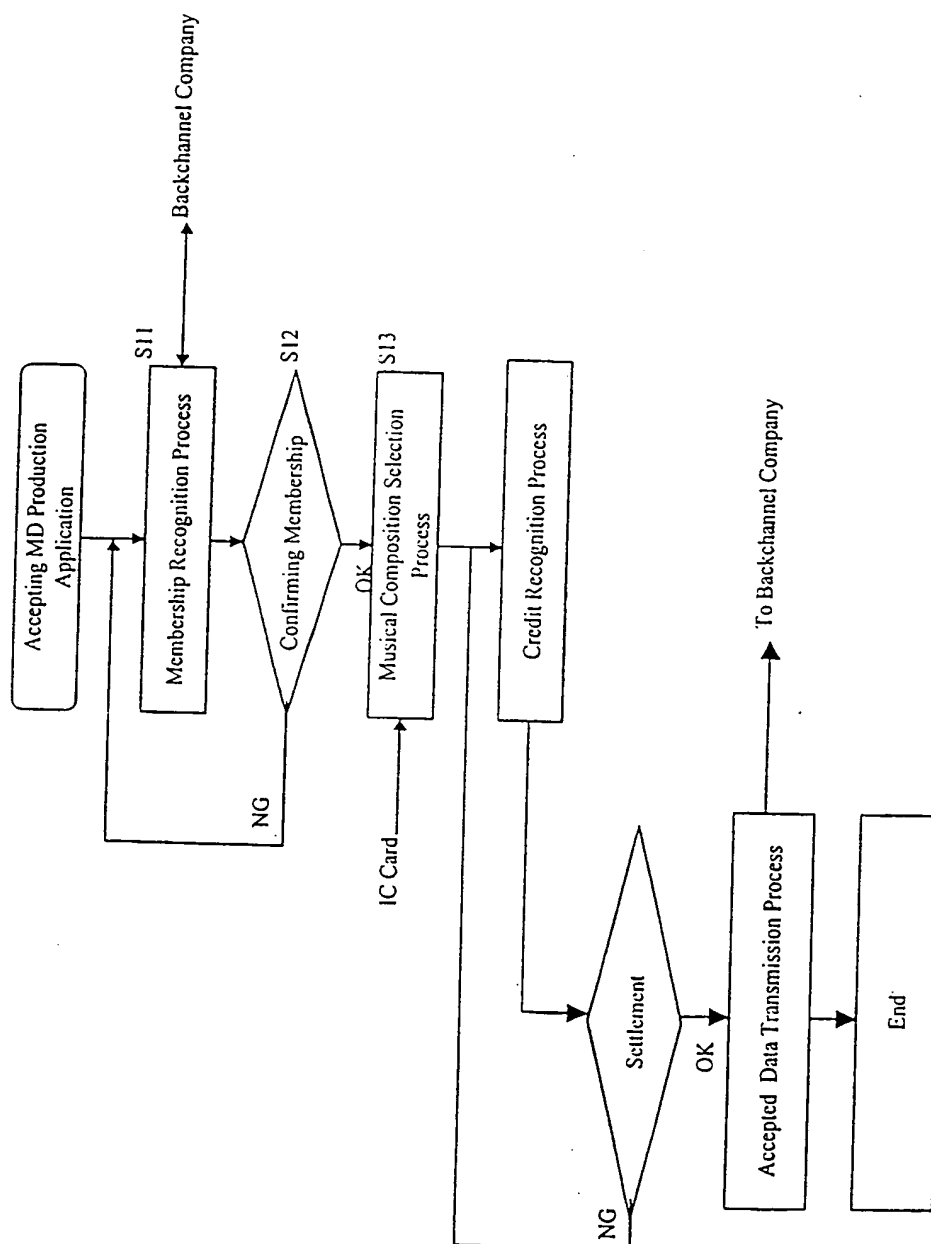


Fig 43

# MUSICAL COMPOSITIONS

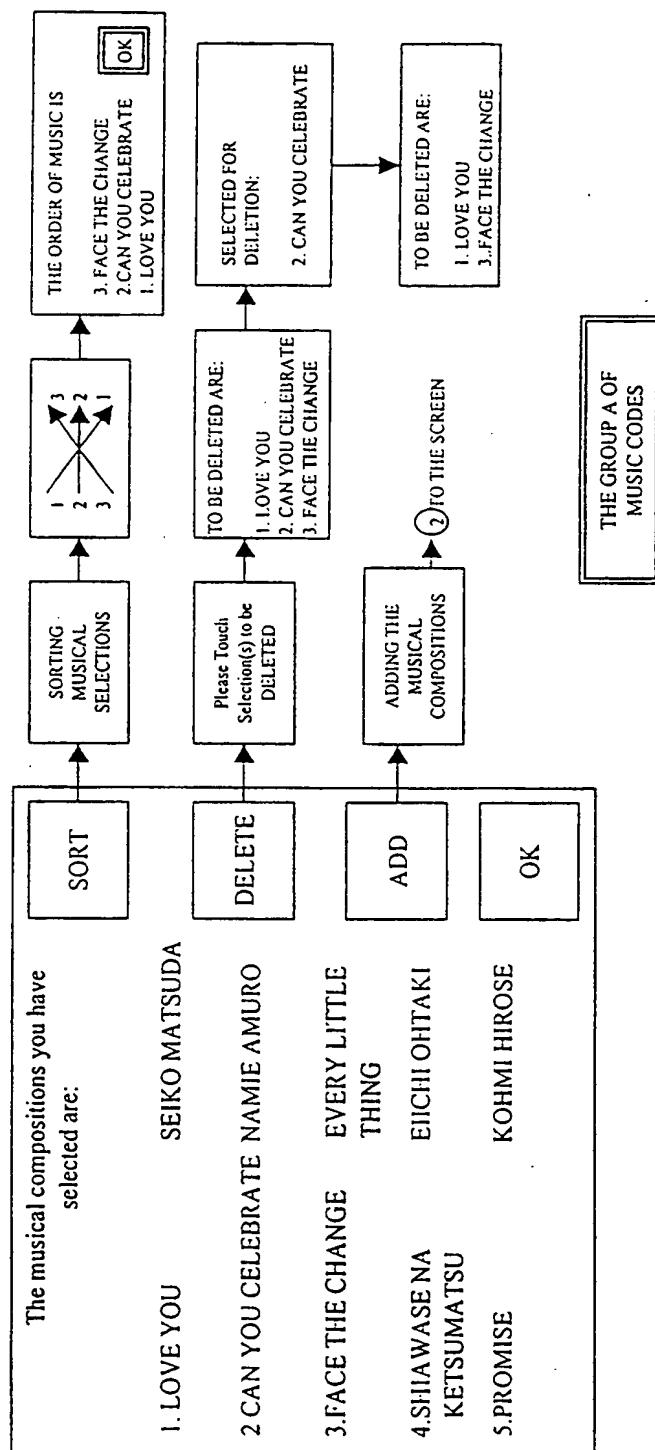


Fig 44

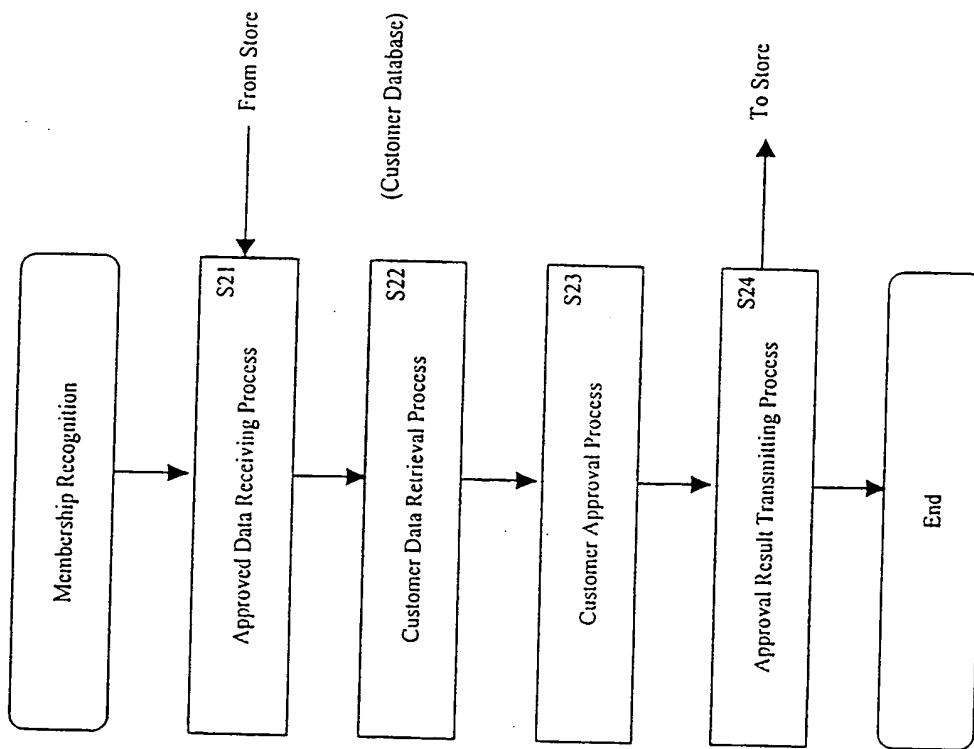

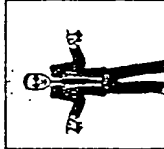
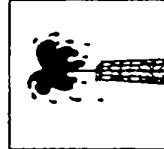

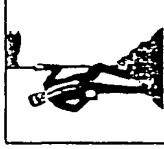
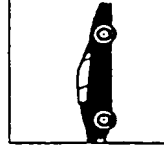
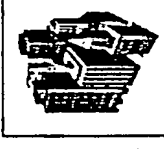
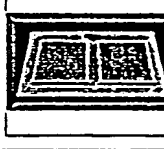



Fig 45

# JACKET DESIGN






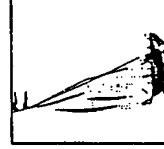



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Fig 46

# ALBUM TITLE

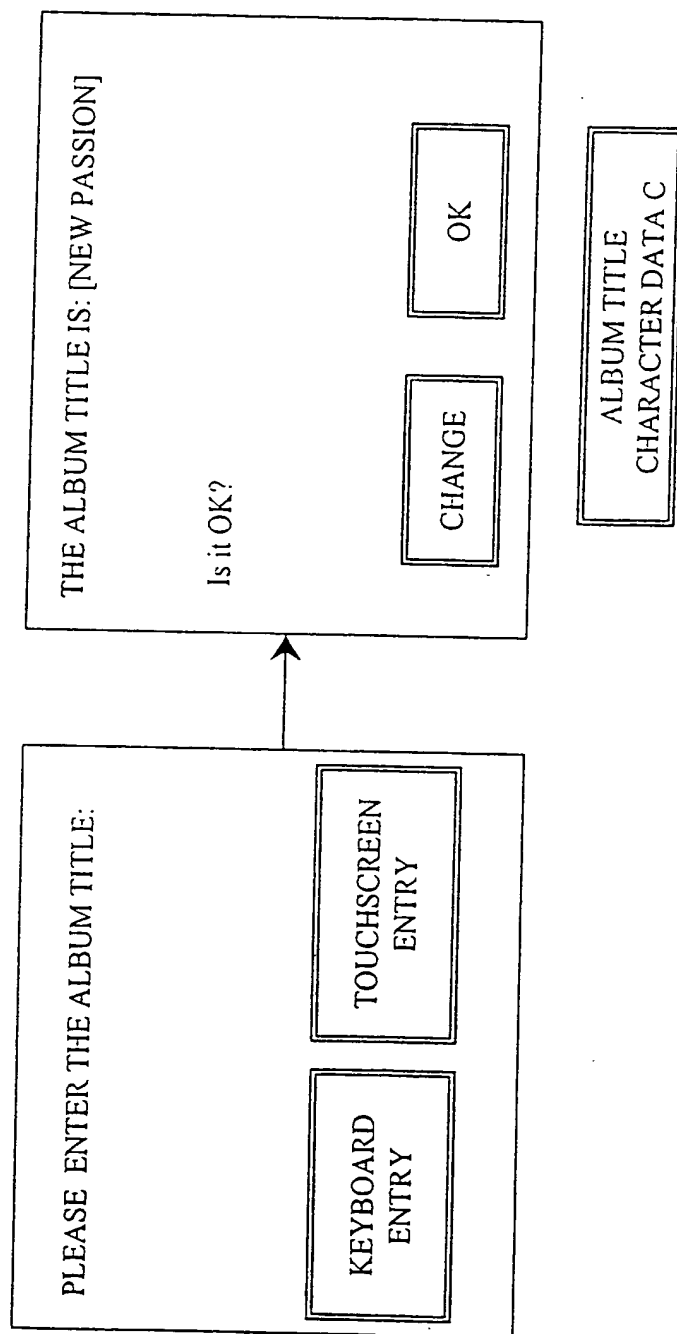


Fig 47

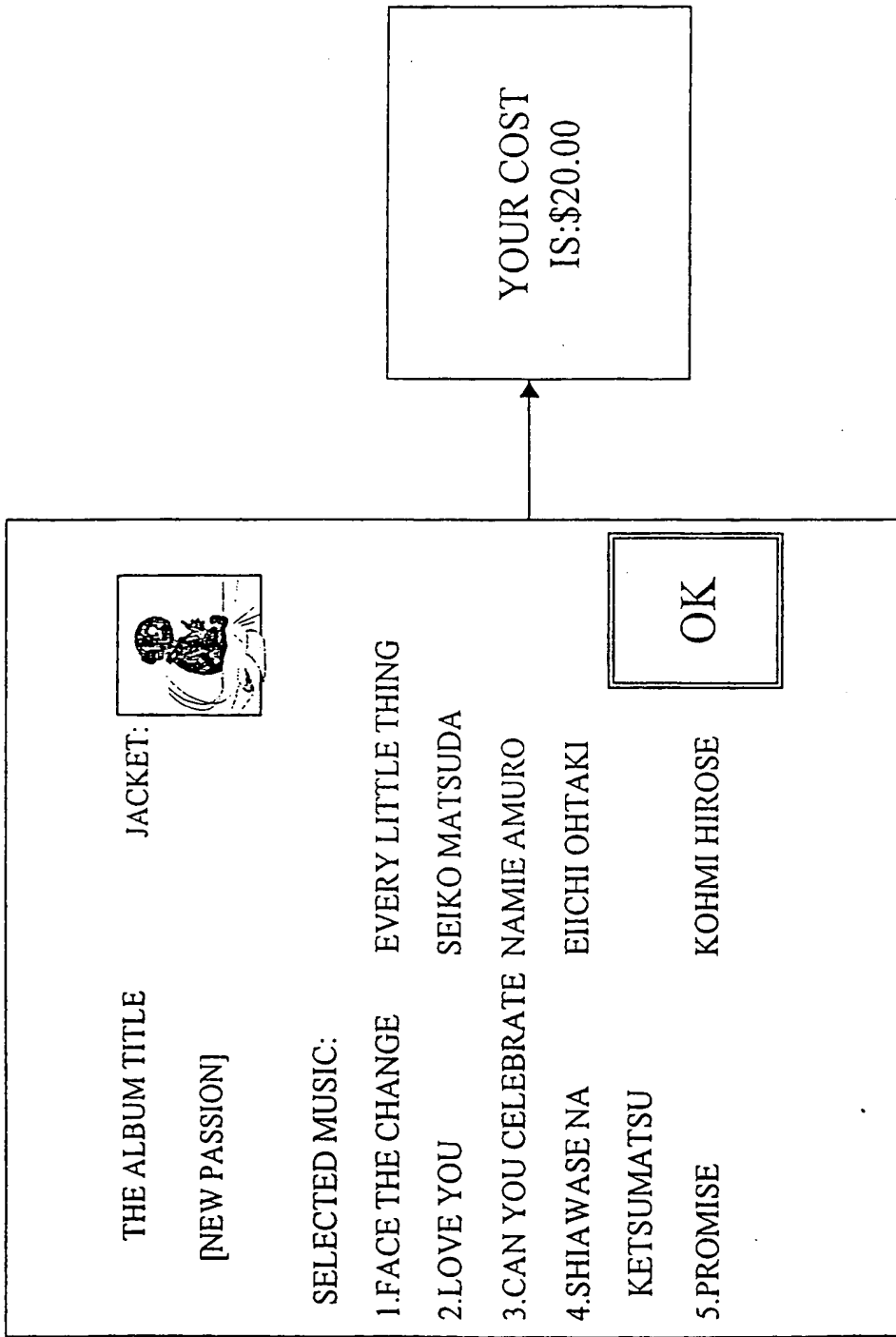


Fig 48

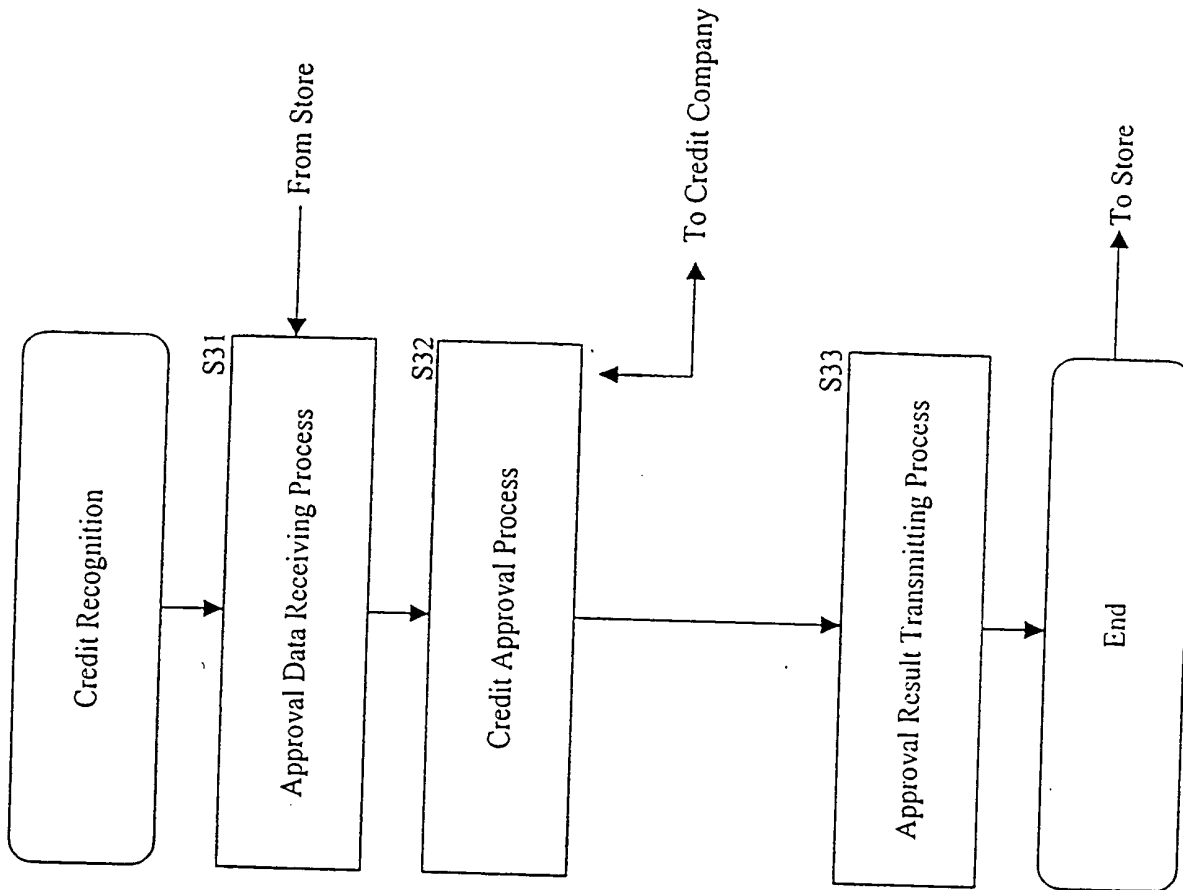


Fig 49



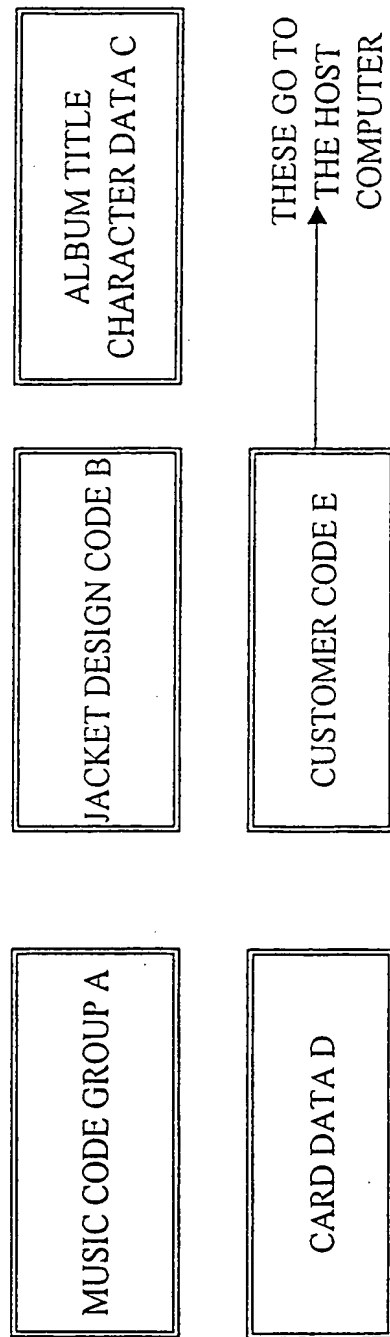


Fig 50

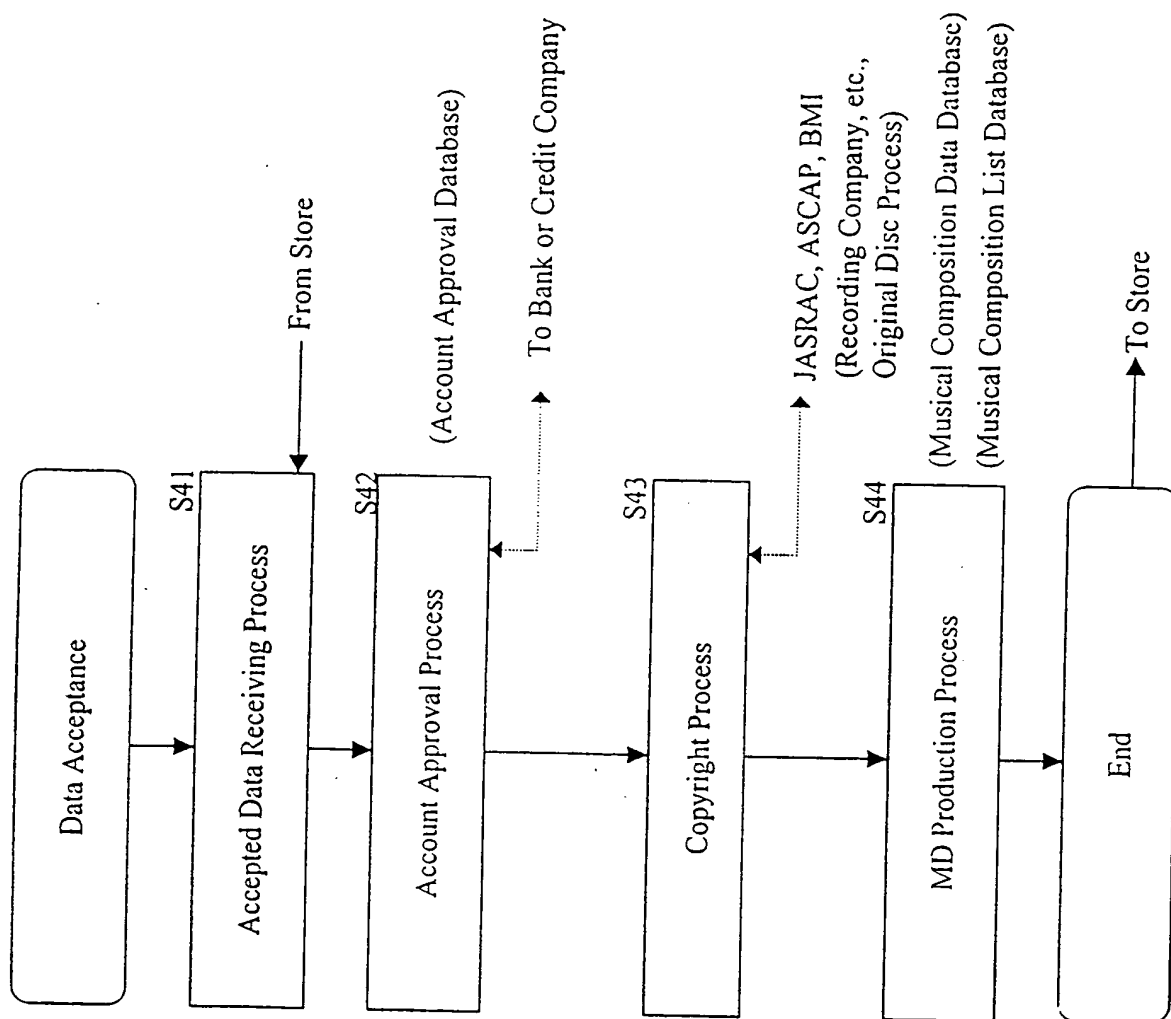


Fig 51

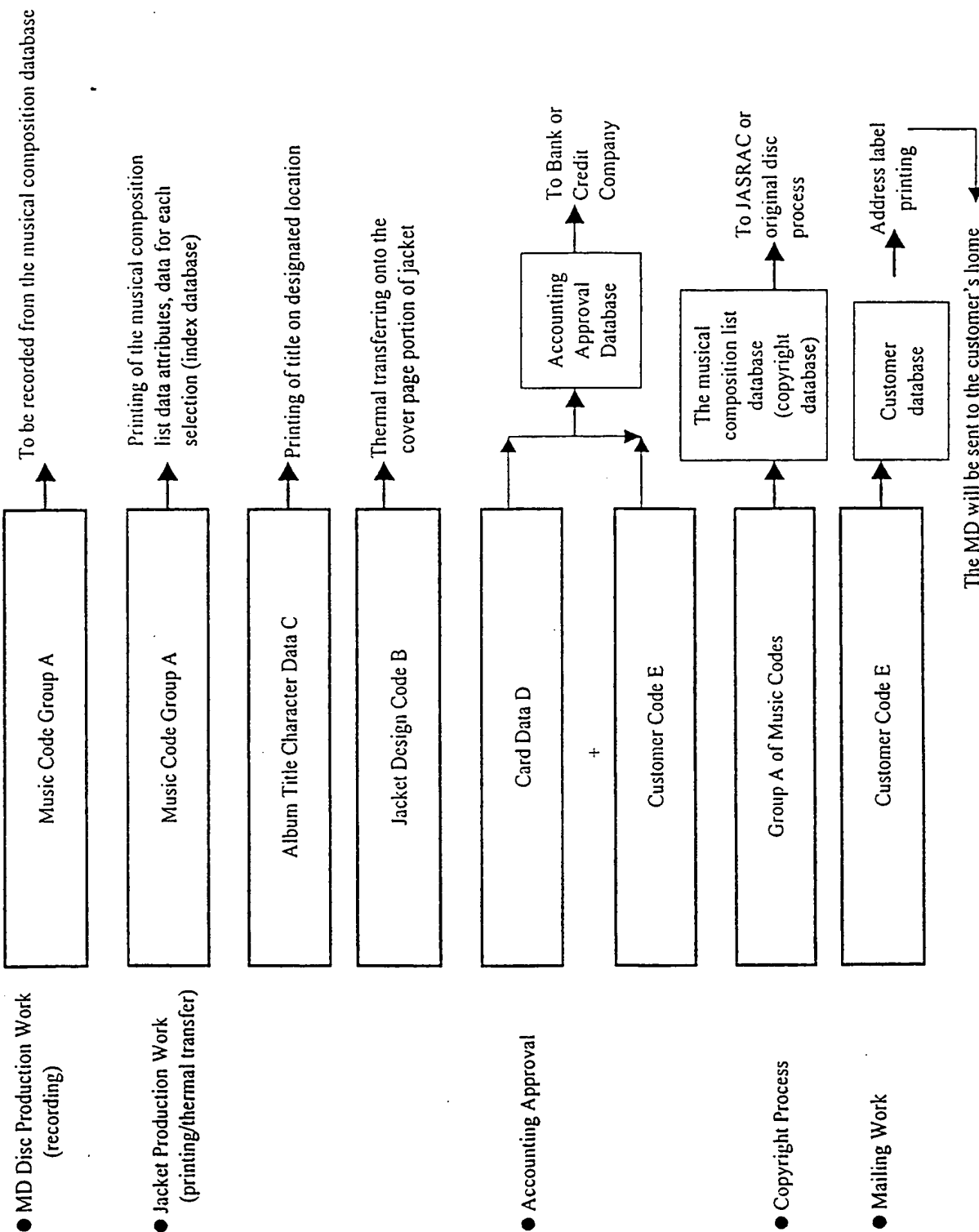


Fig 52

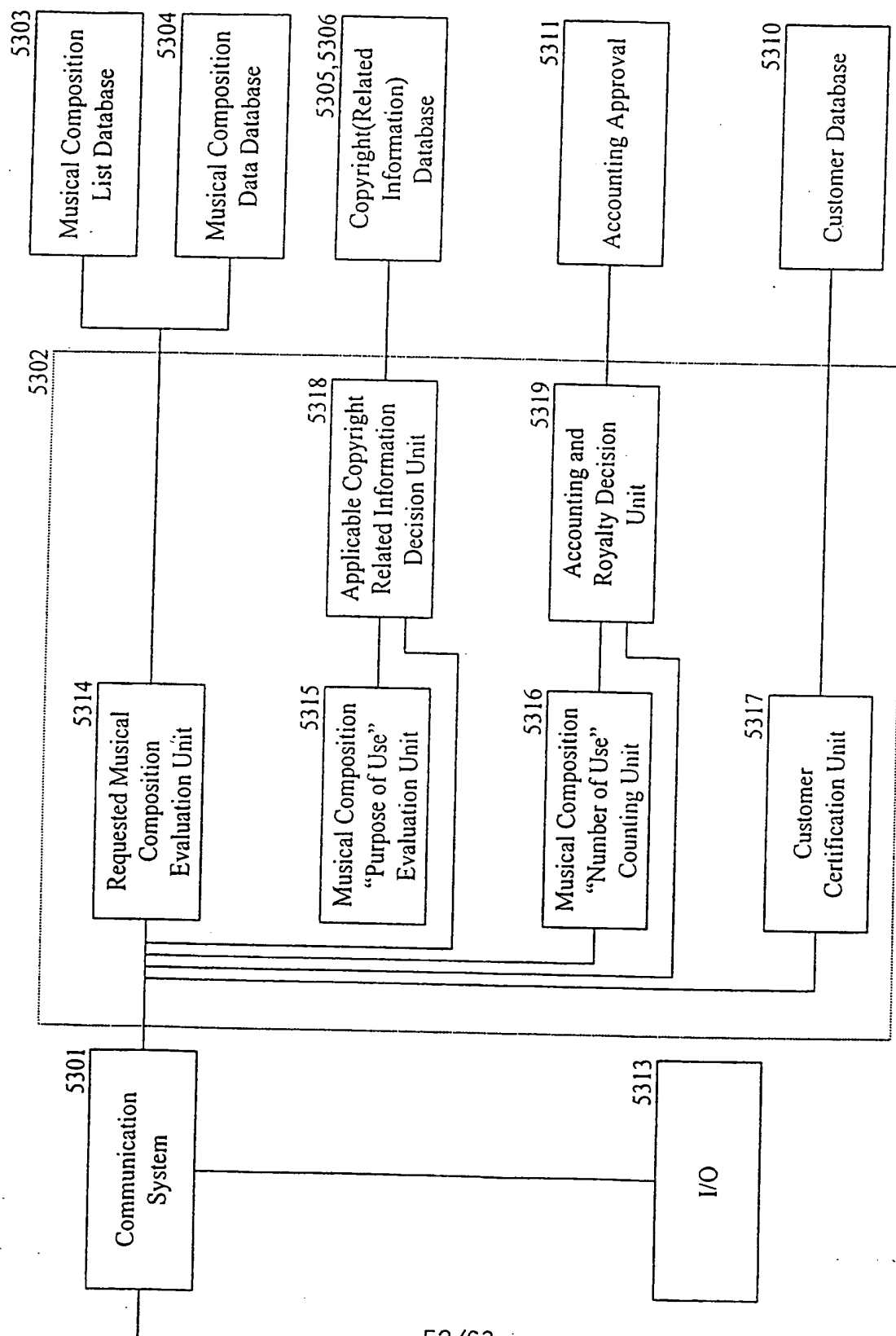


Fig 53

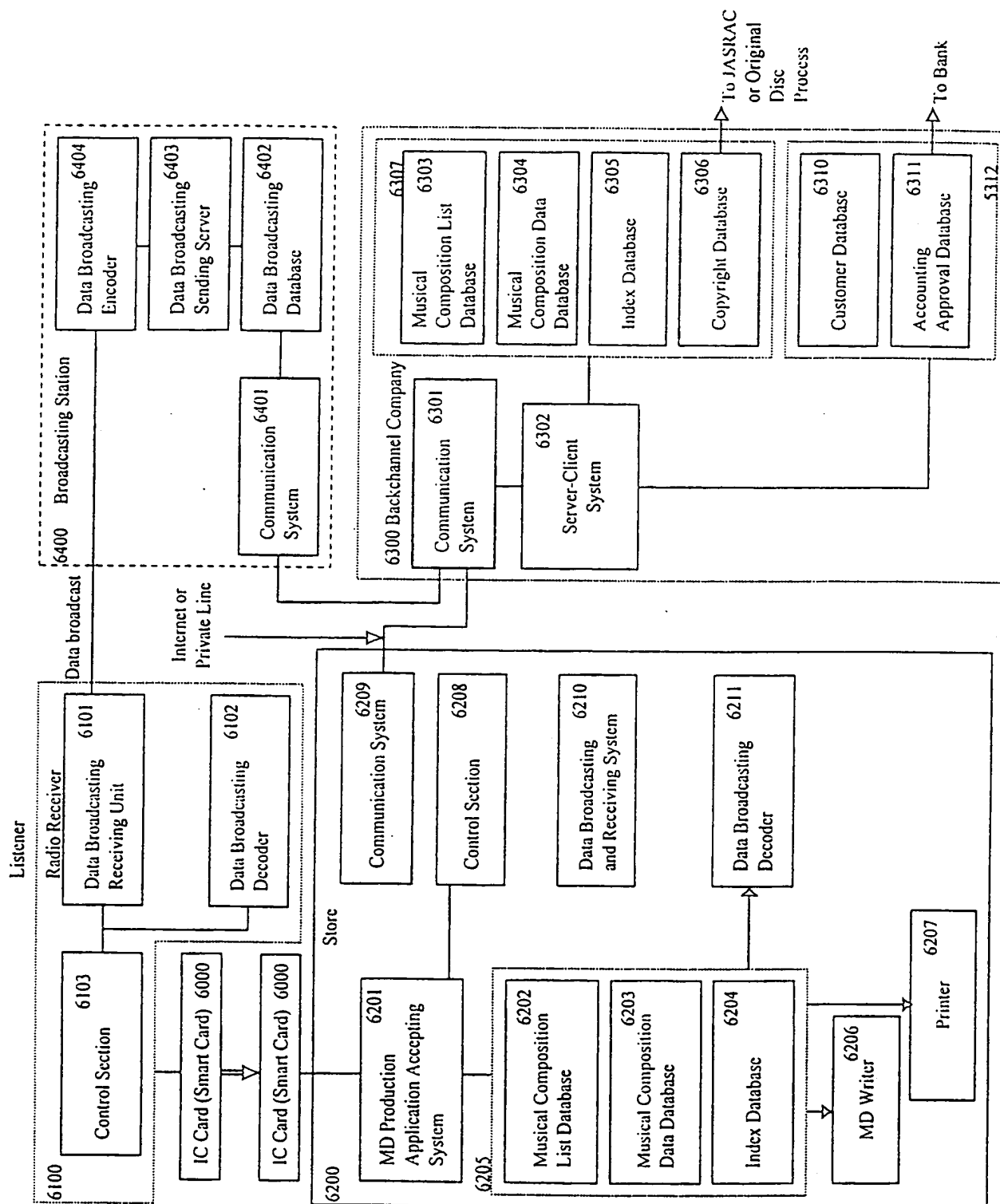


Fig 54

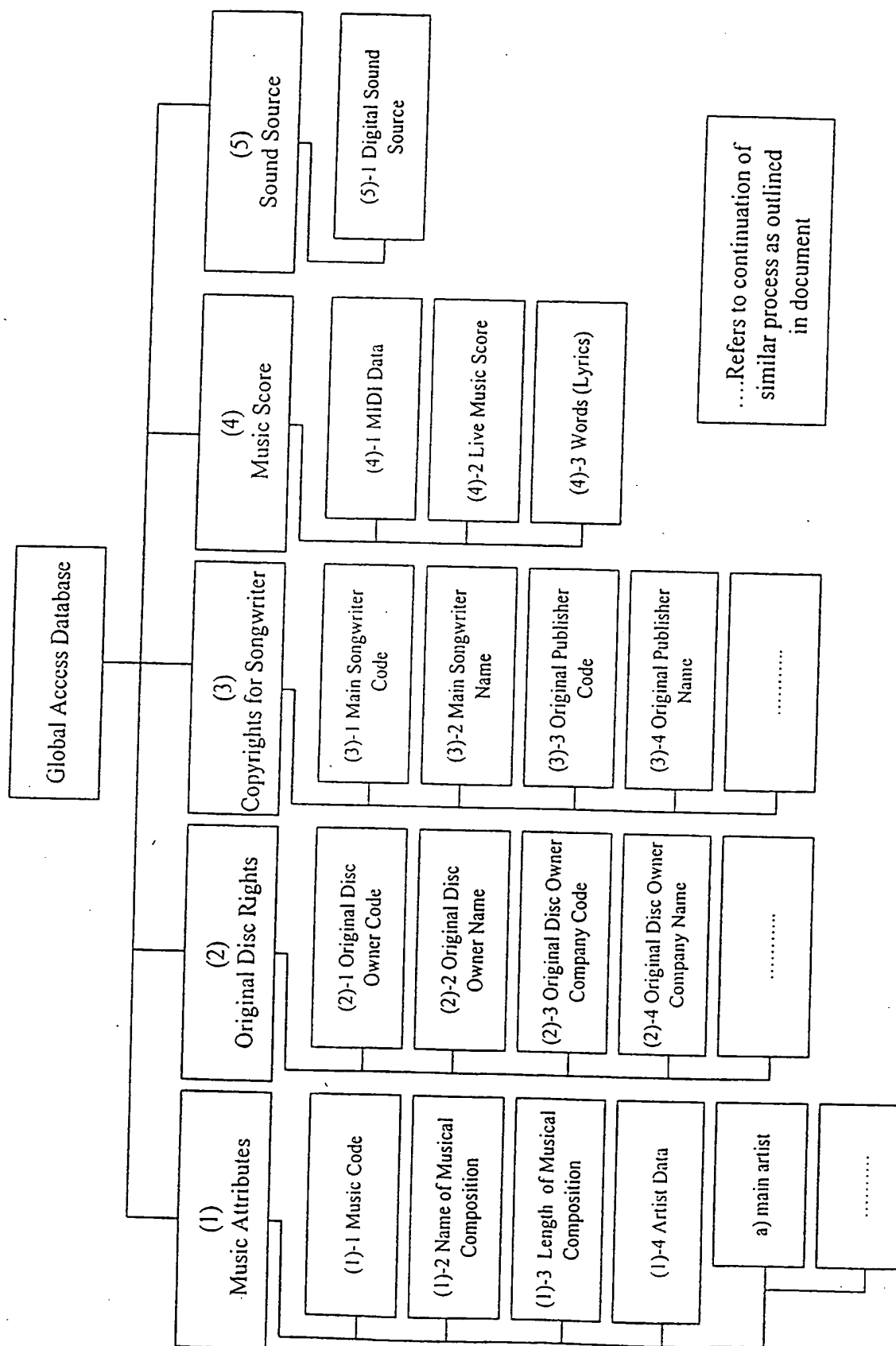


Fig 55

**For Identifying ISRC**

- A: Genre of Titles
- A-1. Title of Musical Composition
  - A-2. Title of Western Music
  - A-3. Title of Modern Japanese Music
  - A-4. Other
- B: Genre of Personal Names
- B-1. Name(s) of Artist(s)
  - B-2. Name(s) of Songwriter(s)
  - B-3. Name(s) of Musical Composer(s)
  - B-4. Name(s) of Musical Arranger(s)
  - B-5. Other
- C: Genre of Corporations
- C-1. Name(s) of Recording Company(ies)
  - C-2. Name(s) of Publisher(s)
  - C-3. Name(s) of Entertainment Production(s)
  - C-4. Other
- D: Genre of Organizations
- D-1. JASRAC (Japan)
  - D-2. BMI (U.S.A.)
  - D-3. ASCAP (U.S.A.)
  - D-4. MCPS (U.K.)
  - D-5. SDRM (France)
  - D-6. Other
- E: Date of Production
- E-1. Year
  - E-2. Month
  - E-3. Day

Fig 56

# Initial Menu on the Screen of the Display Device

User Type A

&lt;For Professional User&gt;

1. Musical Composition Retrieval
2. Application of Broadcasting Use
3. Purchase of Musical Score
4. Application of Performance
5. Application of Synchronization
6. Application of Alteration
7. Notification of Existing Musical Composition

User Type B

&lt;For General User&gt;

1. Musical Composition Retrieval
2. Purchase of Musical Composition
3. Purchase of Musical Score
4. Purchase of MIDI Data

User Type C

&lt;For Rightful Claimant&gt;

1. Musical Composition Retrieval
2. Alteration of Permission Content
3. Alteration of Charging Rate & Fee Content
4. Alteration of Right Content
5. Application of New Work (Writing)

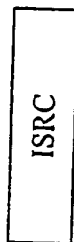
Fig 57



# Permission File

Music Code	Audition	Purchase of Musical Composition	Purchase of Music Score(s)
ISRC	<b>A1. Business Use</b> A1-1. Full Chorus A1-2. One Chorus A1-3. 45 Seconds A1-4. 60 Seconds  <b>A2. Personal Use</b> A2-1 Full Chorus A2-2 One Chorus A2-3 45 Seconds A2-4 60 Seconds	<b>B1. Business Use</b>  <b>B2. Personal Use</b> B2-1. Juke Box B2-2. CD B2-3. MD B2-4. CD-R (downloaded) B2-5. MD-R (downloaded) B2-6. DVD-R (downloaded) B2-7. PC	<b>C1. Business Use</b> C1-1. Purchasing scores as data on the network C1-2. Applying on the network, purchasing hard copies  <b>C2. Personal Use</b> C2-1. Purchasing scores as data on the network C2-2. Applying on the network, purchasing hard copies
Purchase of MIDI Data	Application for Performance	Broadcasting Use of Musical Compositions	Synchronization
<b>D1. Business Use</b> D1-1. Purchasing as data on the network  <b>D2. Personal Use</b> D2-1. Purchasing as data on the network	<b>E1. Business Use</b> E1-1. Pro artist or musician applications for live performances  <b>E2. Personal Use</b> E2-1. Amateur artist or musician applications for live performances	<b>F1. Business Use</b> F1-1. Broadcasting Programs for Radio F1-2. Broadcasting for TV Stations	<b>G1. Business Use</b> G1-1. Movie Images G1-2. TV Images G1-3. Video-gram Images G1-4. Video Game Images G1-5. CM Images
	Application for Alterations		
	<b>H1. Business Use</b> H1-1. Permission for usage of existing sound source sampling H1-2. Permission when producing cover music of an existing musical composition		

Fig 58



Ratio of the Original Disc: the Copyright

1. Ratio Within the Original Disc

Initial Original Disc: Common Original Disc  
Original Disc Owner: Licensee  
Individual: Company: Organization  
Production Royalty Rate  
Main Artist Royalty Rate  
Sub-main Artist Royalty Rate

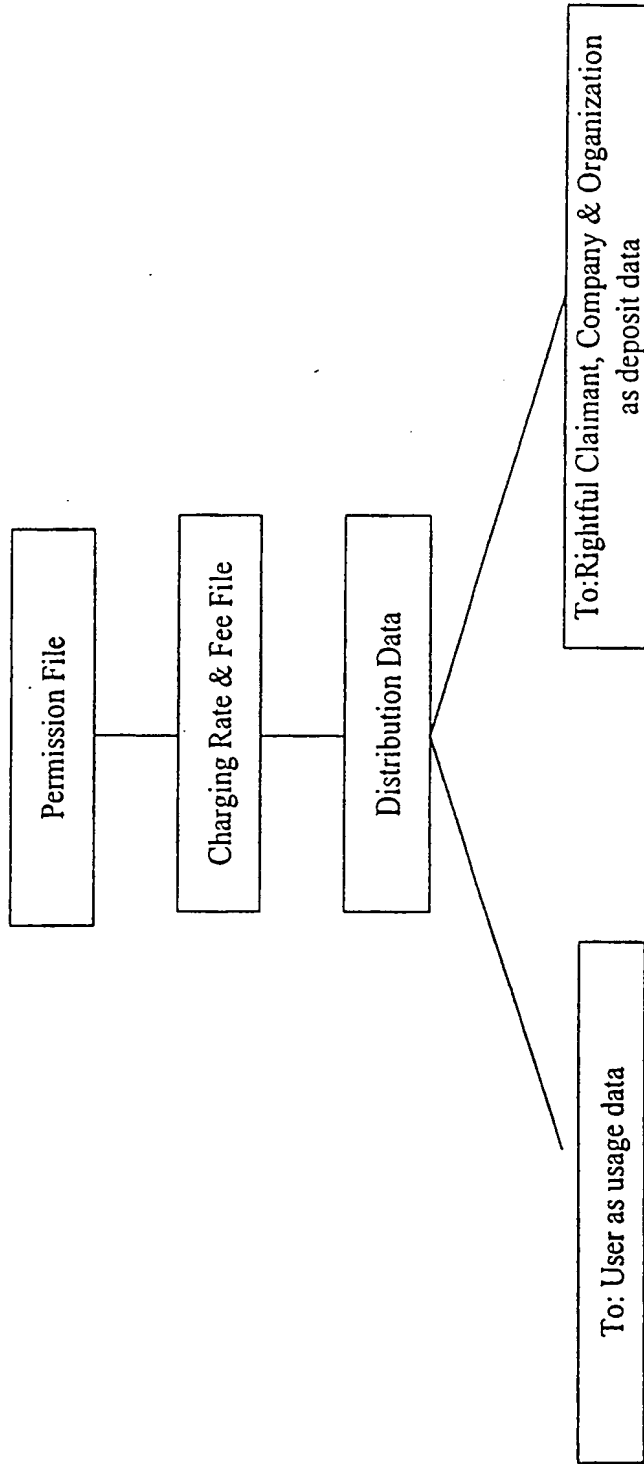
2. Ratio Within the Copyright

Songwriter: Composer: Arranger: Publisher  
Publisher: Common Publishers  
OP: FSP: SP  
Individual: Company: Organization  
Organization: Organization

Fig 59

# Specifying the ISRC by Inputting the Attributes

After having specified the ISRC, one proceeds to the "Evaluation" Unit in the System

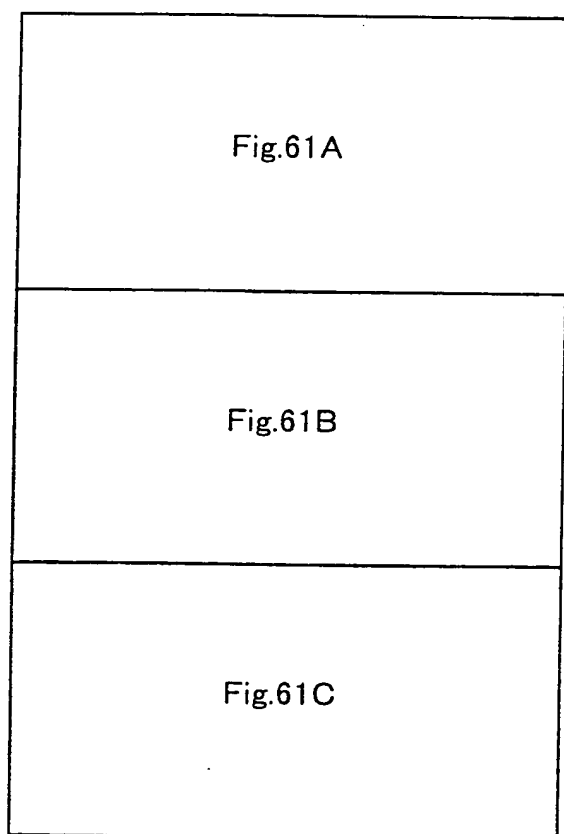


## Agent Functions

Identifying the Country Code of the 2 digits in the ISRC Head  
 Identifying the Country Codes of the 2 digits in the ID number, device number, respectively  
 Sorting in the Feed-back style within the Charging Rate& Fee File  
 In case of: User: JP R.C.: JP, then, proceeds to the Organization, Company, Individual  
 In case of: User: JP R.C.: USA, then, Organization link: from JP Organization to US Organization  
 Company link: from JP Company to US Company  
 Individual link: directly to the individual

Fig 60

Fig. 61



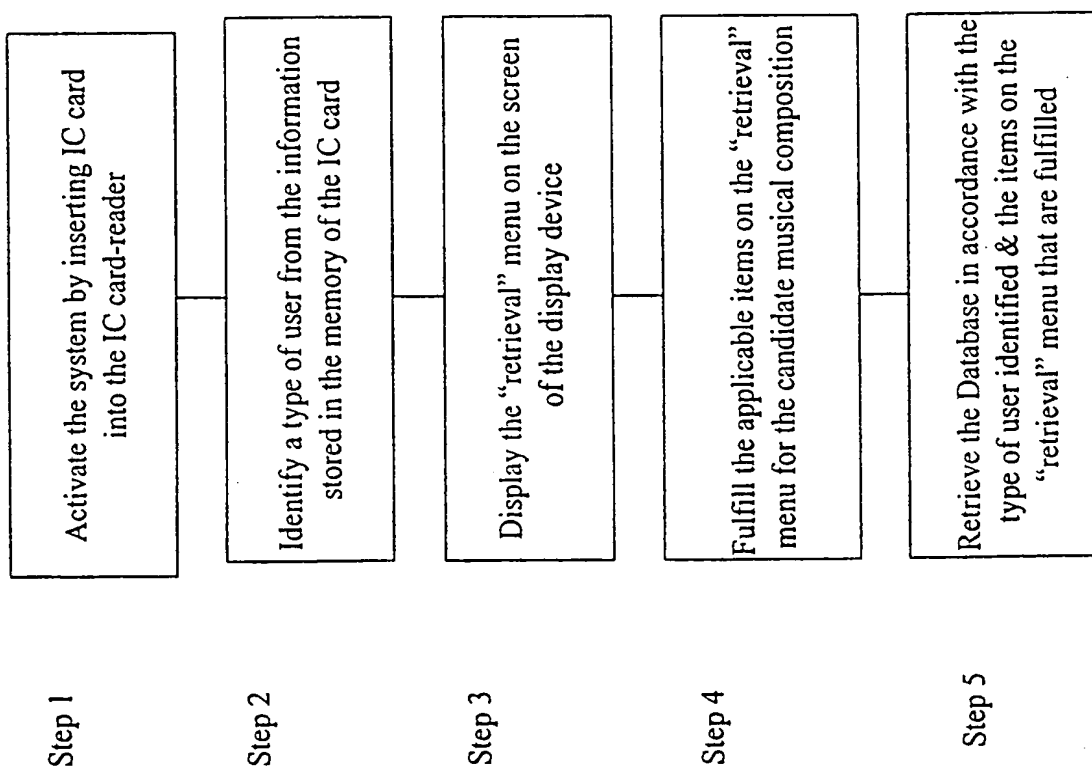


Fig 61A

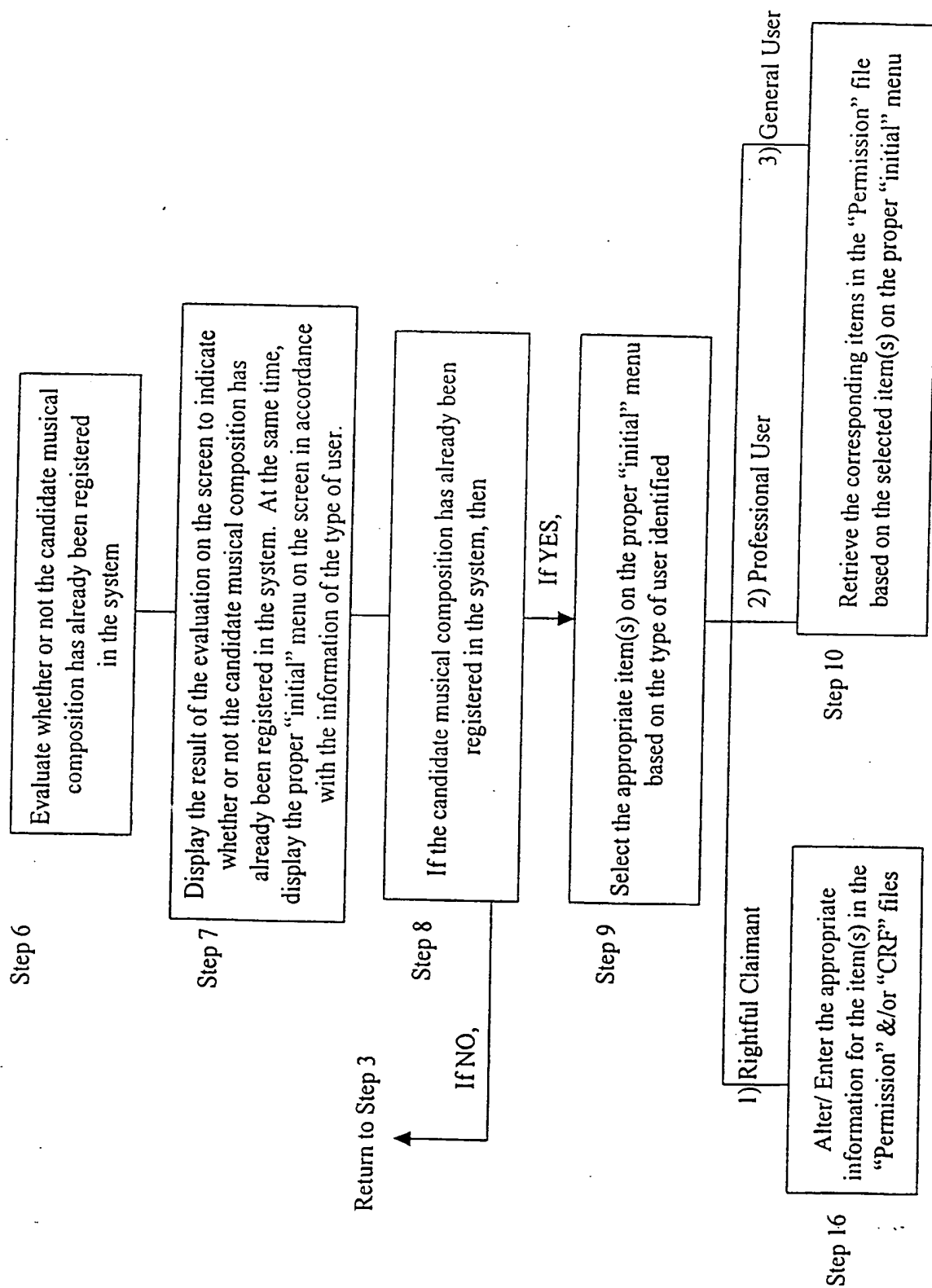


Fig 61B

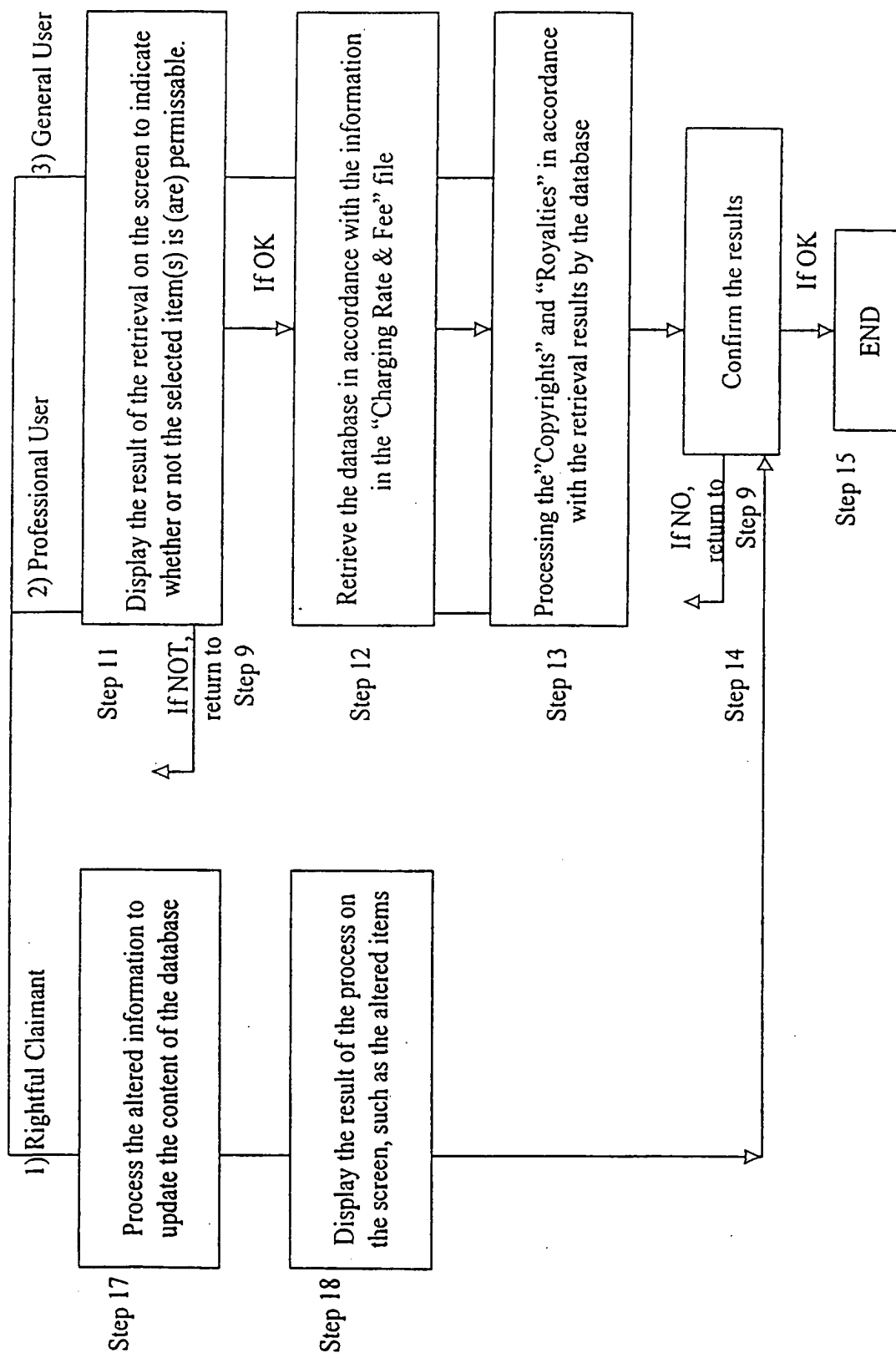


Fig 61C

# INTERNATIONAL SEARCH REPORT

In tional Application No  
PCT/JP 98/03630

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 G11B27/00 G11B27/031 G11B27/028 G11B20/00 G07F7/00  
G07F17/16 G06F17/60 G06F1/00 H04H1/02 H04N7/173  
G11B27/34 G11B27/36

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 G11B G07F G06F H04H H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 649 121 A (IBM) 19 April 1995 see page 4, line 13 - page 5, line 27 see page 6, line 11 - line 38 see page 8, line 6 - line 25 see page 9, line 19 - line 35 see page 13, line 3 - page 17, line 57 see page 41, line 8 - page 44, line 4; claims 1-19; figures 1,12-38 ---	1-7
X	US 5 418 713 A (ALLEN RICHARD) 23 May 1995 see the whole document ---	1-7
P, X	NL 1 003 587 C (CAREL CHRISTIAAN VAN HELSDINGE) 21 January 1998 see the whole document ---	1-7
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

17 November 1998

Date of mailing of the international search report

24/11/1998

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Fax: (+31-70) 340-3016

Authorized officer

Daalmans, F



## INTERNATIONAL SEARCH REPORT

In International Application No

PCT/JP 98/03630

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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